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(54) 발명의 명칭 신규 펩타이드 및 이를 포함하는 약제학적 조성물

(57) 요약

아밀로이드성 질병의 치료용 또는 예방용 약학적 조성물과 이를 구성하는 펩타이드가 제공된다. 아밀로이드성 질병의 치료용 약학적 조성물은 링크 코어에 두 개 이상의 기능적 펩타이드 단편이 각각의 자유 말단을 가지고 결합된 펩타이드로, 상기 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지며 천연 Aβ1-17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 기능적 펩타이드 단편인 펩타이드, 또는 약학적으로 허용가능한 그의 염을 포함한다.

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연구과제명 알츠하이머 치료를 위한 아밀로이드베타 용해 펩타이드 개발

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명세서

청구범위

청구항 1

링크 코어에 두 개 이상의 기능적 펩타이드 단편이 각각의 자유 말단을 가지고 결합된 펩타이드로,
상기 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지며 천연 A β 1~17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 기능적 펩타이드 단편인 펩타이드, 또는 약학적으로 허용가능한 그의 염을 포함하는 아밀로이드성 질병의 치료용 약학적 조성물.

청구항 2

링크 코어에 두 개 이상의 기능적 펩타이드 단편이 각각의 자유 말단을 가지고 결합된 펩타이드로,
상기 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지며 천연 A β 1~17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 펩타이드 단편인 펩타이드, 또는 약학적으로 허용가능한 그의 염을 포함하는 아밀로이드성 질병의 예방용 약학적 조성물.

청구항 3

제1 항 또는 제2 항에 있어서,

상기 아밀로이드성 질병은 알츠하이머병, 대뇌 아밀로이드 맥관병증, 다운증후군, 아밀로이드성 뇌졸중, 전신성 아밀로이드병, 더취(Dutch)형 아밀로이드증, 또는 니만-픽병인 약학적 조성물.

청구항 4

제1 항 또는 제2 항에 있어서,

상기 아밀로이드성 질병은 알츠하이머병인 약학적 조성물.

청구항 5

제1 항에 있어서,

상기 펩타이드 또는 약학적으로 허용가능한 그의 염은 수용성 A β 응집체 및/또는 불수용성 A β 응집체 분해 활성을 가지는 약학적 조성물.

청구항 6

제1 항에 있어서,

상기 펩타이드 또는 약학적으로 허용가능한 그의 염은 수용성 A β 응집체 및/또는 불수용성 A β 응집체의 집적을 억제하는 활성을 가지는 약학적 조성물.

청구항 7

제1 항 또는 제2 항에 있어서,

상기 링크 코어는 적어도 2개 이상의 아미노기를 가지는 아미노산 또는 두 개 이상의 카르복실기를 가지는 아미노산인 약학적 조성물.

청구항 8

제1 항 또는 제2 항에 있어서,

상기 링크 코어와 상기 기능적 단편은 펩타이드 아암에 의해 간접적으로 결합된 약학적 조성물.

청구항 9

제8 항에 있어서,

상기 펩타이드 아암은 알짜 전하가 없고 플렉서블한 펩타이드인 약학적 조성물.

청구항 10

제9 항에 있어서,

상기 펩타이드 아암은 GGGS의 반복단위를 포함하는 약학적 조성물.

청구항 11

제1 항 또는 제2 항에 있어서,

상기 링크 코어는 C 말단이고, 상기 각각의 자유 말단은 N 말단인 약학적 조성물.

청구항 12

제1 항 또는 제2 항에 있어서,

상기 링크 코어는 상기 펩타이드의 중간에 위치하고, 상기 자유 말단 중 적어도 하는 N 말단이고, 적어도 다른 하나는 C 말단인 약학적 조성물.

청구항 13

제1 항 또는 제2 항에 있어서

상기 적어도 10개 이상의 아미노산은 인접 서열을 구성하는 약학적 조성물.

청구항 14

제1 항에 있어서

상기 적어도 10개 이상의 아미노산은 비인접 서열을 구성하는 약학적 조성물.

청구항 15

링크 코어에 두 개 이상의 기능적 펩타이드 단편이 각각의 자유 말단을 가지고 결합된 펩타이드로,

상기 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지며 천연 Aβ 1~17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 펩타이드 단편인 펩타이드.

청구항 16

제15 항에 있어서,

상기 펩타이드는 수용성 Aβ 응집체 및/또는 불수용성 Aβ 응집체에 결합하여 분해하는 활성을 가지는 펩타이드.

청구항 17

제15 항에 있어서,

상기 펩타이드는 수용성 Aβ 응집체 및/또는 불수용성 Aβ 응집체의 집적을 억제하는 활성을 가지는 펩타이드.

청구항 18

제15 항에 있어서,

상기 링크 코어와 상기 기능적 단편은 펩타이드 아암에 의해 간접적으로 결합된 펩타이드.

청구항 19

제15 항에 있어서,

상기 펩타이드 아암은 알짜 전하가 없고 플렉서블한 펩타이드.

청구항 20

제19 항에 있어서,
상기 펩타이드 아암은 GGGS의 반복단위를 포함하는 펩타이드.

청구항 21

제15 항에 있어서,
상기 링크 코어는 C 말단이고, 상기 각각의 자유 말단은 N 말단인 펩타이드.

청구항 22

제15 항에 있어서,
상기 링크 코어는 상기 펩타이드의 중간에 위치하고, 상기 자유 말단 중 적어도 하는 N 말단이고, 적어도 다른 하나는 C 말단인 펩타이드.

청구항 23

제15 항에 있어서
상기 적어도 10개 이상의 아미노산은 인접 서열을 구성하는 펩타이드.

청구항 24

제15 항에 있어서
상기 적어도 10개 이상의 아미노산은 비인접 서열을 구성하는 펩타이드.

청구항 25

제15항, 제16항, 및 제18항 내지 제24항 중 어느 한 항에 따른 펩타이드를 사용하여 수용성 A β 응집체 및/또는 불수용성 A β 응집체의 응집을 분해하는 방법으로,
상기 펩타이드의 두 개 이상의 기능적 펩타이드 단편이 각각 수용성 A β 응집체 및/또는 불수용성 A β 응집체와 결합하여 분해하는 것인 방법.

청구항 26

제15항, 및 제17항 내지 제24항 중 어느 한 항에 따른 펩타이드를 사용하여 수용성 A β 응집체 및/또는 불수용성 A β 응집체의 응집을 억제하는 방법으로,
상기 펩타이드의 두 개 이상의 기능적 펩타이드 단편이 각각 상기 수용성 A β 응집체 및/또는 불수용성 A β 응집체와 결합하여 응집을 억제하는 것인 방법.

발명의 설명

기술 분야

[0001] 본 기재는 신규 펩타이드에 관한 것으로, 보다 상세하게는 아밀로이드 베타(amyloid beta)의 응집을 분해하거나 응집을 억제하는 펩타이드 및 이를 포함하는 약제학적 조성물에 관한 것이다.

배경 기술

[0002] 인간 아밀로이드 베타(이하 A β)는 뇌 내에서 작용하여 아밀로이드성 질병의 원인이 된다. A β 는 아밀로이드 단백질 전구체(APP)에서 유래된 39~43개의 아미노산 잔기로 구성된 펩타이드이다. 아밀로이드 단백질 전구체(APP, Amyloid Pre Protein)는 β -, γ -분해효소(β -, γ -secretase)에 의하여 순차적으로 A β 40 또는 A β 42 모노머(monomer)로 분해된다. 이후 A β 40 또는 A β 42 모노머는 집적하여 A β 올리고머(oligomer)를 형성하고, 이들 올리고머가 집적하여 A β 피브릴(fibril)을 형성하고, 이들 피브릴이 집적하여 A β 플라크(plaque)를 형성한다. A β 는 올리고머가 되는 상태부터 뇌에 강한 신경 독성을 나타내어 뇌세포를 사멸시키는 것으로 알려져 있다.

[0003] 그러나 현재까지 개발된 아밀로이드성 질병 치료제의 대다수는 환자에게 면역 반응을 일으키는 A β 단편(fragment) 또는 A β 내의 특정 에피토프(epitope)에 대한 항체를 사용하거나 케미컬 의약품을 적용하는 방식을 채용하고 있다. 그러나 면역 반응을 일으키는 A β 단편 또는 항체를 사용하는 방식의 경우에는 뇌혈관 장벽 투과율이 낮고 면역원성에 의한 ARIAs(Amyloid-Related Imaging Abnormalities) 등의 부작용 문제로 임상개발에 어려움이 있다. 또한, 케미컬 의약품의 경우에는 현재까지 아밀로이드성 질병에 대한 근본적인 치료제는 부재한 상태이다.

발명의 내용

해결하려는 과제

- [0004] 본 개시는 수용성 A β 응집체 및/또는 불수용성 A β 응집체에 결합하여 수용성 A β 응집체 및/또는 불수용성 A β 응집체를 분해(disaggregate)할 수 있는 펩타이드를 제공하고자 한다.
- [0005] 본 개시는 A β 모노머, 수용성 A β 응집체 및/또는 불수용성 A β 응집체에 결합하여 A β 모노머, 수용성 A β 응집체 및/또는 불수용성 A β 응집체의 집적을 억제(inhibit aggregation)할 수 있는 펩타이드를 제공하고자 한다.
- [0006] 본 개시는 수용성 A β 응집체 및/또는 불수용성 A β 응집체에 결합하여 이들을 분해할 수 있는 펩타이드 또는 이의 약학적으로 허용 가능한 염을 포함하여 아밀로이드성 질병을 치료할 수 있는 조성물을 제공하고자 한다.
- [0007] 본 개시는 수용성 A β 응집체 및/또는 불수용성 A β 응집체에 결합하여 이들의 집적을 억제할 수 있는 펩타이드 또는 이의 약학적으로 허용 가능한 염을 포함하여 아밀로이드성 질병을 예방할 수 있는 조성물을 제공하고자 한다.

과제의 해결 수단

- [0008] 실시예들에 따른 아밀로이드성 질병의 치료용 약학적 조성물은 링크 코어에 두 개 이상의 기능적 펩타이드 단편이 각각의 자유 말단을 가지고 결합된 펩타이드로, 상기 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지며 천연 A β 1~17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 기능적 펩타이드 단편인 펩타이드, 또는 약학적으로 허용가능한 그의 염을 포함한다.
- [0009] 실시예들에 따른 아밀로이드성 질병의 예방용 약학적 조성물은 링크 코어에 두 개 이상의 기능적 펩타이드 단편이 각각의 자유 말단을 가지고 결합된 펩타이드로, 상기 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지며 천연 A β 1~17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 펩타이드 단편인 펩타이드, 또는 약학적으로 허용가능한 그의 염을 포함한다.
- [0010] 실시예들에 따른 펩타이드는 링크 코어에 두 개 이상의 기능적 펩타이드 단편이 각각의 자유 말단을 가지고 결합된 펩타이드로, 상기 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지며 천연 A β 1~17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 펩타이드 단편이다.
- [0011] 실시예들에 따른 펩타이드를 사용하여 수용성 A β 응집체 및/또는 불수용성 A β 응집체의 응집을 분해할 수 있다.
- [0012] 실시예들에 따른 펩타이드를 사용하여 수용성 A β 응집체 및/또는 불수용성 A β 응집체의 응집을 억제할 수 있다.
- [0013] 기타 본 발명의 측면들의 구체적인 사항은 이하의 상세한 설명에 포함되어 있다.

발명의 효과

- [0014] 실시예들에 따른 펩타이드는 수용성 A β 응집체 및/또는 불수용성 A β 응집체에 결합하여 이들을 효과적으로 분해하거나 집적을 억제할 수 있다.
- [0015] 실시예들에 따른 펩타이드는 천연의 A β 40 또는 A β 42와 유사한 아미노산을 포함하기 때문에 A β 에 대한 특이성이 강하고, 작용기작이 명확하고, 뇌혈관장벽(BBB)을 통과하기가 쉽고, 계면활성제 등 화학물질 또는 자외선 등 광 자극에 일부 또는 전부 구조 변성률이 낮아 안정성이 뛰어나며, 종래의 케미컬 의약품과 같은 예상치 못한 부작용이 발생할 가능성이 매우 낮다.

[0016] 실시예들에 따른 약학적 조성물은 수용성 A β 응집체 및/또는 불수용성 A β 응집체에 결합하여 이들을 분해하거나 집적을 억제할 수 있는 펩타이드 또는 이의 약학적으로 허용 가능한 염을 포함하여 A β 로 유도된 세포 독성을 경감시키고, 신경세포 사멸을 억제할 수 있으므로 아밀로이드성 질병의 예방 또는 치료가 가능하다.

도면의 간단한 설명

[0017] 도 1 내지 도 6은 실시예들에 따른 수용성 A β 응집체 및/또는 불수용성 A β 응집체를 분해(disaggregate)하거나 집적을 억제(inhibit aggregation)하는 펩타이드의 구성을 설명하기 위한 모식도들이다.

도 7 내지 도 9는 실험예들에 따른 펩타이드와 비교 제조예에 의해 제조된 펩타이드의 A β 응집분해 효과를 측정하는 결과를 나타내는 그래프들이다.

도 10 내지 도 12는 실험예들에 따른 펩타이드와 비교 제조예에 의해 제조된 펩타이드의 A β 응집억제 효과를 측정하는 결과를 나타내는 그래프들이다.

도 13은 P101(0117)가 A β 에 직접 결합하는 결과를 나타내는 실험결과이다.

도 14a 내지 도 14d는 P101(0117)의 투여가 A β 플라크를 분해하는 결과를 나타내는 실험결과이다.

도 15a 내지 도 15d는 P101(0117)가 A β 로 유발된 신경 세포 사멸을 억제하는 결과를 나타내는 그래프이다.

도 16a 내지 도 16e는 P101(0117) 처리가 A β 투여 마우스 모델의 공간 작업성 기억과 인지 기억 손상을 개선하는 결과를 나타내는 그래프이다.

발명을 실시하기 위한 구체적인 내용

[0018] 이하 본 기술분야에서 통상의 지식을 가진 자가 용이하게 실시할 수 있도록 실시예들에 대하여 상세히 설명한다. 실시예는 여러가지 상이한 형태로 구현될 수 있으며, 여기에서 설명하는 구체적인 실시예로만 한정되지 않는다.

[0019] 신규 펩타이드(New Peptide)

[0020] 도 1 내지 도 6에 예시되어 있는 바와 같이 신규 펩타이드는 수용성 A β 응집체 및/또는 불수용성 A β 응집체를 분해(disaggregate)하거나 집적을 억제(inhibit aggregation)하는데 효과적인 구조로 구조화된다.

[0021] 수용성 A β 응집체 및/또는 불수용성 A β 응집체는 A β 올리고머, A β 프로토피브릴(protofibril), A β 피브릴(fibril), A β 플라크(plaque) 등을 포함한다.

[0022] 신규 펩타이드는 링크 코어(LC)에 두 개 이상의 기능적 펩타이드 단편(functional peptide fragment, FPF)이 각각의 자유 말단을 가지고 결합된 펩타이드이다. 즉 링크 코어(LC)를 기준으로 다수의 기능적 펩타이드 단편(FPF)이 각각의 자유 말단을 가지고 자유롭게 유동하여 수용성 A β 응집체 및/또는 불수용성 A β 응집체에 직접 결합할 수 있기 때문에 모노머로 이루어진 펩타이드 단편 대비 수용성 A β 응집체 및/또는 불수용성 A β 응집체를 매우 효과적으로 분해하거나 효과적으로 집적을 억제할 수 있다.

[0023] 링크 코어(LC)와 기능적 펩타이드 단편(FPF)의 결합은 직접적인 결합 또는 간접적인 결합 모두 가능하다. 도 1 및 도 2에 예시되어 있는 바와 같이 링크 코어(LC)에 기능적 펩타이드 단편이 직접적으로 결합될 수도 있고, 도 3 내지 도 6에 예시되어 있는 바와 같이 기능적 펩타이드 단편(FPF)과 링크 코어(LC)가 펩타이드 아암(Peptide Arm, PA)를 통해 간접적으로 결합될 수도 있다.

[0024] 링크 코어(LC)는 두 개 이상의 기능적 펩타이드 단편(FPF)과 직접적 또는 간접적으로 결합하기 위해서 두 개 이상의 아미노기를 가지는 아미노산 또는 두 개 이상의 카르복실기를 가지는 아미노산으로 이루어질 수 있다. 두 개 이상의 아미노기를 가지는 아미노산은 Lys(K) 또는 Arg(R) 일 수 있다. 특히 Lys(K)일 수 있다. 두 개 이상의 카르복실기를 가지는 아미노산은 Asp(D) 또는 Glu(E) 일 수 있다.

[0025] 펩타이드 아암(PA)은 기능적 펩타이드 단편(FPF)이 수용성 A β 응집체 및/또는 불수용성 A β 응집체를 분해하거나 집적을 억제하는 기능을 보다 원활하게 수행하거나 이들 기능을 방해지 않기 위해서 알짜 전하(net charge)가 0인 펩타이드 및/또는 플렉서블한 펩타이드일 수 있다. 예를 들면, 펩타이드 아암(PA)을 구성하는 Z는 글라이신(Gly, G) 또는 세린(Ser, S) 일 수 있다. 나아가 펩타이드 아암(PA)은 GGGs 서열을 반복단위로 포함하는 4 내지 16개의 아미노산을 포함하는 펩타이드일 수 있다. 펩타이드 아암(PA)은 플렉서블한 정도를 고려할 때 GGGSGGGs 서열을 가지는 펩타이드일 수 있다. 물론 펩타이드 아암(PA) 없이도 기능적 펩타이드 단편(FPF)의 기

능성이 충분히 담보된다면 펩타이드 아암(PA)은 생략될 수도 있다.

[0026] 기능적 펩타이드 단편(FPF)은 최대 17개의 아미노산으로 이루어진다. 도 1 내지 도 6에서는 천연 Aβ 1~17과 동일 서열(SEQ ID NO : 1)을 예시하고 있으나 기능적 단편은 천연 Aβ 1~17의 17개의 아미노산 중 적어도 10개 이상의 아미노산을 포함하는 서열이면 가능하다. 도 1 내지 도 6 에 예시되어 있는 바와 같이 적어도 10개 이상의 아미노산은 인접한(contiguous) 서열을 구성할 수 있다.

[0027] 적어도 10개 이상의 아미노산은 비인접한(non-contiguous) 서열을 구성할 수 있다.

[0028] 적어도 10개 이상의 아미노산이 인접한 서열을 구성할 경우에는 기능적 펩타이드 단편(FPF)은 SEQ ID NO : 1~36 의 서열 중 어느 하나의 서열을 가지는 펩타이드일 수 있다.

[0029] 적어도 12개 이상의 아미노산이 비인접한 서열을 구성할 경우에는 SEQ ID NO : 37 내지 9310의 서열 중 어느 하나의 서열을 가지는 펩타이드일 수 있다.

[0030] 적어도 10개 내지 11개의 아미노산이 비인접한 서열을 구성하는 서열은 아래 표 1에 구체적인 서열로 기재하지는 않았으나 Xaa 사이에 연속된 아미노산이 2개 이상이거나 N말단이나 C말단으로 연속된 아미노산이 2개 이상 존재하는 조합이 적합할 수 있다.

[0031] 나아가 Xaa의 위치가 N 말단으로부터 1,3,7,11 위치인 경우에는 극 산성인 아미노산이 적합할 수 있다.

표 1

[0032]

SEQ ID	천연 Aβ 1~17과 유사한 아미노산수	SEQUENCE																
NO		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	17	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Leu
2	16	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Leu
3	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Xaa
4	15	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Leu
5	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Xaa
6	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa	Xaa
7	14	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Leu
8	14	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Xaa
9	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa	Xaa
10	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa	Xaa

11	13	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
12	13	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
13	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
14	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
15	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
16	12	Xaa	Xaa	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
17	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
18	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
19	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
20	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
21	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Xaa
22	11	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
23	11	Xaa	Xaa	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
24	11	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
25	11	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
26	11	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
27	11	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Xaa
28	11	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Xaa	Xaa
29	10	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
30	10	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
31	10	Xaa	Xaa	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
32	10	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
33	10	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
34	10	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Xaa
35	10	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Xaa	Xaa
36	10	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
37	16	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
38	16	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
39	16	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
40	16	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
41	16	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
42	16	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
43	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
44	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
45	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
46	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
47	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
48	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
49	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
50	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
51	16	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
52	15	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
53	15	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
54	15	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
55	15	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
56	15	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys

[0033]

57	15	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
58	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
59	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
60	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
61	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
62	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
63	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
64	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
65	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
66	15	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
67	15	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
68	15	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
69	15	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
70	15	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
71	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
72	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
73	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
74	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
75	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
76	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
77	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
78	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
79	15	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
80	15	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
81	15	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
82	15	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
83	15	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
84	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
85	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
86	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
87	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
88	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
89	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
90	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
91	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
92	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
93	15	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
94	15	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
95	15	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
96	15	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
97	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
98	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
99	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
100	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
101	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
102	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
103	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
104	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
105	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
106	15	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
107	15	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
108	15	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
109	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
110	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys

[0034]

111	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
112	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
113	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
114	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
115	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
116	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
117	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
118	15	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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122	15	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
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127	15	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
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137	15	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
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139	15	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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141	15	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
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149	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
150	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
151	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
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159	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
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161	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
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163	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
164	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys

165	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
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167	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
168	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
169	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
170	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
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173	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
174	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
175	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
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178	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
179	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
180	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
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184	15	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
185	14	Asp	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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187	14	Asp	Ala	Glu	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
188	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
189	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
190	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
191	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
192	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
193	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
194	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
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196	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
197	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
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200	14	Xaa	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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209	14	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
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211	14	Asp	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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214	14	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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216	14	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
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218	14	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
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222	14	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
223	14	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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234	14	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
235	14	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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245	14	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
246	14	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
247	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
248	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
249	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
250	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
251	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
252	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
253	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
254	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
255	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
256	14	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
257	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
258	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
259	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
260	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
261	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
262	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
263	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
264	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
265	14	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
266	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
267	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
268	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
269	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
270	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
271	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys

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272	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
273	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
274	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
275	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
276	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
277	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
278	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
279	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
280	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
281	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Lys
282	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Lys
283	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Lys
284	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Xaa	Lys
285	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
286	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
287	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
288	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
289	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
290	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
291	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
292	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
293	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Lys
294	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
295	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
296	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
297	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
298	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
299	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
300	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
301	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
302	14	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
303	14	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
304	14	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
305	14	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
306	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
307	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
308	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
309	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
310	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
311	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
312	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
313	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
314	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
315	14	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
316	14	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
317	14	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
318	14	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
319	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
320	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
321	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
322	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
323	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
324	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
325	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys

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326	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
327	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
328	14	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
329	14	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
330	14	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
331	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
332	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
333	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
334	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
335	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
336	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
337	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
338	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
339	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
340	14	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
341	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
342	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
343	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
344	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
345	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
346	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
347	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
348	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
349	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
350	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
351	14	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
352	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
353	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
354	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
355	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
356	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
357	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
358	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
359	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
360	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
361	14	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
362	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
363	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
364	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
365	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
366	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
367	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
368	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
369	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
370	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
371	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
372	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
373	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
374	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
375	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
376	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
377	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
378	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
379	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys

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380	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
381	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
382	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
383	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
384	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
385	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
386	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
387	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
388	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
389	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
390	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
391	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
392	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
393	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
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395	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
396	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
397	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
398	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
399	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
400	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
401	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
402	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
403	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
404	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
405	14	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
406	14	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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410	14	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
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414	14	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
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416	14	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
417	14	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
418	14	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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421	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
422	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
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425	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
426	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
427	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
428	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
429	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
430	14	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
431	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
432	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
433	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys

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434	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
435	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
436	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
437	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
438	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
439	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
440	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
441	14	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
442	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
443	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
444	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
445	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
446	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
447	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
448	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
449	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
450	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
451	14	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
452	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
453	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
454	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
455	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
456	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
457	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
458	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
459	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
460	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
461	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
462	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
463	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
464	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
465	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
466	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
467	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
468	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
469	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
470	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
471	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
472	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
473	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
474	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
475	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
476	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
477	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
478	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
479	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
480	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
481	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
482	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
483	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
484	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
485	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
486	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
487	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys

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488	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
489	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
490	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
491	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
492	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
493	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
494	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
495	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
496	14	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
497	14	Asp	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
498	14	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
499	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
500	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
501	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
502	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
503	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
504	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
505	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
506	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
507	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
508	14	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
509	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
510	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
511	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
512	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
513	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
514	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
515	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
516	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
517	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
518	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
519	14	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
520	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
521	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
522	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
523	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
524	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
525	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
526	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
527	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
528	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
529	14	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
530	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
531	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
532	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
533	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
534	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
535	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
536	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
537	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
538	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
539	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
540	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
541	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys

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542	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
543	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
544	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
545	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
546	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
547	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
548	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
549	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
550	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
551	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
552	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
553	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
554	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
555	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
556	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
557	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
558	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
559	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
560	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
561	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
562	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
563	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
564	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
565	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
566	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
567	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
568	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
569	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
570	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
571	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
572	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
573	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
574	14	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
575	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
576	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
577	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
578	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
579	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
580	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
581	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
582	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
583	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
584	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
585	14	Asp	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
586	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
587	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
588	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
589	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
590	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
591	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
592	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
593	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
594	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
595	14	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys

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596	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
597	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
598	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
599	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
600	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
601	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
602	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
603	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
604	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
605	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
606	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
607	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
608	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
609	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
610	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
611	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
612	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
613	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
614	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
615	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
616	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
617	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
618	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
619	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
620	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
621	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
622	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
623	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
624	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
625	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
626	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
627	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
628	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
629	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
630	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
631	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
632	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
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634	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
635	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
636	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
637	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
638	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
639	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
640	14	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
641	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
642	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
643	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
644	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
645	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
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647	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
648	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
649	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa

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650	14	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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652	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
653	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
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655	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
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659	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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661	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
662	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
663	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
664	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
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672	14	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
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699	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
700	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
701	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
702	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
703	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa

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704	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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706	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
707	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
708	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
709	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
710	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
711	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
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716	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
717	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
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719	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
720	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
721	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
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723	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
724	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
725	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
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727	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
728	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
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733	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
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736	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
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738	14	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
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741	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
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746	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
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749	14	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
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805	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Lys
806	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Gln	Lys
807	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
808	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Xaa	Lys
809	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Xaa
810	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
811	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Gln	Lys

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812	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
813	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Xaa	Lys
814	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Xaa
815	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
816	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
817	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Lys
818	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Xaa
819	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
820	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Xaa	Lys
821	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Xaa
822	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
823	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Xaa
824	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
825	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
826	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
827	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
828	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Lys
829	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Xaa
830	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
831	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
832	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Xaa	Lys
833	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Xaa
834	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
835	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Lys
836	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Xaa
837	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
838	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Xaa
839	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
840	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
841	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Lys
842	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Lys
843	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Xaa
844	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
845	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Lys
846	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Xaa
847	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
848	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Xaa
849	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
850	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
851	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Xaa	Lys
852	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
853	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
854	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Xaa
855	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
856	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
857	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Xaa
858	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
859	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
860	14	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
861	13	Asp	Xaa	Xaa	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
862	13	Asp	Ala	Xaa	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
863	13	Asp	Ala	Glu	Xaa	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
864	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys	Lys

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865	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
866	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
867	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
868	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Xaa	His	His	Gln	Lys
869	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	Xaa	His	Gln	Lys
870	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	Xaa	Gln	Lys
871	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Xaa	Lys
872	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Xaa
873	13	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
874	13	Xaa	Ala	Glu	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
875	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
876	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
877	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
878	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
879	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
880	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
881	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
882	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
883	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
884	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
885	13	Asp	Xaa	Glu	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
886	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
887	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
888	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
889	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
890	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
891	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
892	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
893	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
894	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
895	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
896	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
897	13	Asp	Ala	Xaa	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
898	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
899	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
900	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
901	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
902	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
903	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
904	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
905	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
906	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
907	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
908	13	Asp	Ala	Glu	Xaa	Arg	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
909	13	Asp	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
910	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
911	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
912	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
913	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
914	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
915	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
916	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
917	13	Asp	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
918	13	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys

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919	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
920	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
921	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
922	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
923	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
924	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
925	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
926	13	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
927	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
928	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
929	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
930	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
931	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
932	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
933	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
934	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
935	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
936	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
937	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
938	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
939	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
940	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
941	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
942	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
943	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
944	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
945	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
946	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
947	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
948	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
949	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
950	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
951	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
952	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Xaa
953	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	Xaa	Gln	Lys
954	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Xaa	Lys
955	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Xaa
956	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Xaa
957	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Xaa	Lys
958	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Xaa
959	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Xaa
960	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Xaa	Xaa
961	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Xaa
962	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Xaa
963	13	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
964	13	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
965	13	Xaa	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
966	13	Xaa	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
967	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
968	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
969	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
970	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
971	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
972	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys

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973	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
974	13	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
975	13	Asp	Xaa	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
976	13	Asp	Xaa	Xaa	Phe	Arg	His	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Gln	Lys
977	13	Asp	Xaa	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
978	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
979	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
980	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
981	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
982	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
983	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
984	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
985	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
986	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
987	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
988	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
989	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
990	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
991	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
992	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
993	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
994	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
995	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
996	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
997	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
998	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
999	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1000	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1001	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1002	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1003	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1004	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1005	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1006	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1007	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1008	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1009	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1010	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1011	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1012	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1013	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1014	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1015	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1016	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1017	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1018	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1019	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1020	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1021	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1022	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1023	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1024	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1025	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1026	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys

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1027	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1028	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1029	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1030	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1031	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1032	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Lys
1033	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1034	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1035	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1036	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Xaa	Xaa
1037	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
1038	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
1039	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
1040	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Xaa	Lys
1041	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Xaa	Xaa
1042	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
1043	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	Xaa	Gln	Lys
1044	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Xaa	Lys
1045	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Xaa
1046	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
1047	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Xaa	Lys
1048	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Xaa
1049	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
1050	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Xaa
1051	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
1052	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
1053	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1054	13	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1055	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1056	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1057	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1058	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1059	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1060	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1061	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1062	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1063	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1064	13	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1065	13	Xaa	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1066	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1067	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1068	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1069	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1070	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1071	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1072	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1073	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1074	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1075	13	Xaa	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1076	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1077	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1078	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1079	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1080	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys

1081	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1082	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1083	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1084	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1085	13	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1086	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1087	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1088	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1089	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1090	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1091	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1092	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1093	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1094	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1095	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1096	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1097	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1098	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1099	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1100	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1101	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1102	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1103	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
1104	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
1105	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
1106	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
1107	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
1108	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
1109	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1110	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Lys
1111	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Lys
1112	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Lys
1113	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Xaa	Lys
1114	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
1115	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1116	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
1117	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
1118	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
1119	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
1120	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1121	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
1122	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Lys
1123	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
1124	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1125	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
1126	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
1127	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1128	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
1129	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1130	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1131	13	Asp	Xaa	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1132	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1133	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1134	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys

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1135	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1136	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1137	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1138	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1139	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1140	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1141	13	Asp	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1142	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1143	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1144	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1145	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1146	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1147	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1148	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1149	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1150	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1151	13	Asp	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1152	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1153	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1154	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1155	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1156	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1157	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1158	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1159	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1160	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1161	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
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1164	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1165	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1166	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1167	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
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1169	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
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1350	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys

[0058]

1351	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
1352	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Lys
1353	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
1354	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1355	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
1356	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
1357	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1358	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
1359	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1360	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1361	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Lys
1362	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Lys
1363	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Lys
1364	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Xaa	Lys
1365	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
1366	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1367	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
1368	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
1369	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
1370	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
1371	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1372	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
1373	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Lys
1374	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
1375	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1376	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
1377	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
1378	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1379	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
1380	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1381	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1382	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
1383	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
1384	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
1385	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
1386	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1387	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
1388	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Lys
1389	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
1390	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1391	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
1392	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
1393	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1394	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
1395	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1396	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1397	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
1398	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Xaa	Lys
1399	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Xaa
1400	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Lys
1401	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
1402	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
1403	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1404	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa

1405	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1406	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1407	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Xaa	Lys
1408	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Xaa
1409	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
1410	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Xaa
1411	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
1412	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Lys
1413	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Xaa
1414	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Lys
1415	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Lys
1416	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Xaa	Lys
1417	13	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1418	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1419	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1420	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1421	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1422	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1423	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1424	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1425	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1426	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1427	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1428	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1429	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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1431	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1432	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1433	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1434	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1435	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1436	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1437	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1438	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1439	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1440	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1441	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1442	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1443	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1444	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1445	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1446	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1447	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1448	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1449	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1450	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1451	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1452	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1453	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
1454	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1455	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1456	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
1457	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1458	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa

1459	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
1460	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1461	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
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1463	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
1464	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
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1466	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1467	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
1468	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
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1473	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
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1493	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
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1495	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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1504	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1505	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
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1511	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
1512	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys

1513	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
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1520	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
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1523	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1524	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1525	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
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1527	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
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1531	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
1532	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
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[0064]

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1711	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
1712	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Lys
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1716	13	Asp	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Lys
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1727	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
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1731	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
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1891	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1892	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1893	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1894	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1895	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1896	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1897	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
1898	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
1899	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
1900	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
1901	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
1902	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
1903	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1904	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
1905	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
1906	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
1907	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
1908	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
1909	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1910	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
1911	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
1912	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
1913	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
1914	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1915	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
1916	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
1917	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
1918	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1919	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
1920	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
1921	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1922	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
1923	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1924	13	Asp	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1925	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1926	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1927	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1928	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1929	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1930	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1931	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1932	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1933	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1934	13	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1935	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1936	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1937	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1938	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1939	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1940	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1941	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1942	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1943	13	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1944	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys

1945	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1946	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1947	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1948	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1949	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1950	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1951	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1952	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
1953	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
1954	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
1955	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
1956	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
1957	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
1958	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1959	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
1960	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
1961	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
1962	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
1963	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
1964	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1965	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
1966	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
1967	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
1968	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
1969	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1970	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
1971	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
1972	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
1973	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1974	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
1975	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
1976	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1977	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
1978	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1979	13	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1980	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
1981	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1982	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1983	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1984	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1985	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1986	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1987	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1988	13	Asp	Ala	Glu	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1989	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
1990	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
1991	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
1992	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
1993	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
1994	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
1995	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
1996	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
1997	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
1998	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys

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1999	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2000	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2001	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2002	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2003	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2004	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2005	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2006	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2007	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2008	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2009	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2010	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2011	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2012	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2013	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2014	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2015	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2016	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2017	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2018	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2019	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2020	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2021	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2022	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2023	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2024	13	Asp	Ala	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2025	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2026	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2027	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2028	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2029	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2030	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2031	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2032	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2033	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2034	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2035	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2036	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2037	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2038	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2039	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2040	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2041	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2042	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2043	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2044	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2045	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2046	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2047	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2048	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2049	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2050	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2051	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2052	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys

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2053	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2054	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2055	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2056	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2057	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2058	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2059	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2060	13	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2061	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2062	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2063	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2064	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2065	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2066	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2067	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2068	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2069	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2070	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2071	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2072	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2073	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2074	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2075	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2076	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2077	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2078	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2079	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2080	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2081	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2082	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2083	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2084	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2085	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2086	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2087	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2088	13	Asp	Ala	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2089	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2090	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2091	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2092	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2093	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2094	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2095	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2096	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2097	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2098	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2099	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2100	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2101	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2102	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2103	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2104	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2105	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2106	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys

[0073]

2107	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2108	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2109	13	Asp	Ala	Glu	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2110	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2111	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2112	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2113	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2114	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2115	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2116	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2117	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2118	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2119	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2120	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2121	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2122	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2123	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2124	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2125	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
2126	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
2127	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
2128	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
2129	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Xaa	Lys
2130	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Xaa
2131	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Lys
2132	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Xaa
2133	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Lys
2134	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Lys
2135	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Xaa	Lys
2136	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Xaa
2137	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
2138	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Xaa
2139	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
2140	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
2141	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Xaa
2142	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
2143	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
2144	13	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
2145	13	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2146	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2147	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2148	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2149	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2150	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2151	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2152	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2153	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2154	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2155	13	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2156	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2157	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2158	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2159	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2160	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys

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2161	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2162	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2163	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2164	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2165	13	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2166	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2167	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2168	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2169	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2170	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2171	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2172	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2173	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2174	13	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2175	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2176	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2177	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2178	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2179	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2180	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2181	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2182	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2183	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2184	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2185	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2186	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2187	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2188	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2189	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2190	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2191	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2192	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2193	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2194	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2195	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2196	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2197	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2198	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2199	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2200	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2201	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2202	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2203	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2204	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2205	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2206	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2207	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2208	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2209	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2210	13	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2211	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2212	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2213	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2214	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys

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2215	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2216	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2217	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2218	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2219	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2220	13	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2221	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2222	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2223	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2224	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2225	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2226	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2227	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2228	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2229	13	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2230	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2231	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2232	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2233	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2234	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2235	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2236	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2237	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2238	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2239	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2240	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2241	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2242	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2243	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2244	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2245	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2246	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2247	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2248	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2249	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2250	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2251	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2252	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2253	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2254	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2255	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2256	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2257	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2258	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2259	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2260	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2261	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2262	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2263	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2264	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2265	13	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2266	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2267	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2268	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys

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2269	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2270	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2271	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2272	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2273	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2274	13	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2275	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2276	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2277	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2278	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2279	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2280	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2281	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2282	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2283	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2284	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2285	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2286	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2287	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2288	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2289	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2290	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2291	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2292	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2293	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2294	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2295	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2296	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2297	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2298	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2299	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2300	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2301	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2302	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2303	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2304	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2305	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2306	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2307	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2308	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2309	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2310	13	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2311	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2312	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2313	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2314	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2315	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2316	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2317	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2318	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2319	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2320	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2321	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2322	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys

[0077]

2323	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2324	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2325	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2326	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2327	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2328	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2329	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2330	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2331	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2332	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2333	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2334	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2335	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2336	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2337	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2338	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2339	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2340	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2341	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2342	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2343	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2344	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2345	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2346	13	Xaa	Ala	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2347	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2348	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2349	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2350	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2351	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2352	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2353	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2354	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2355	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2356	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2357	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2358	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2359	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2360	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2361	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2362	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2363	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2364	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2365	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2366	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2367	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2368	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2369	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2370	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2371	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2372	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2373	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2374	13	Xaa	Ala	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2375	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2376	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys

[0078]

2377	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2378	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2379	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2380	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2381	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2382	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2383	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2384	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2385	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2386	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2387	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2388	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2389	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2390	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2391	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2392	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2393	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2394	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2395	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2396	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2397	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2398	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Xaa	Lys
2399	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Xaa
2400	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2401	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2402	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Xaa	Lys
2403	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Xaa
2404	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2405	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2406	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2407	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2408	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2409	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2410	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2411	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
2412	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Lys
2413	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Xaa
2414	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2415	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Xaa	Lys
2416	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Xaa
2417	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2418	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Xaa
2419	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2420	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2421	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Lys
2422	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Xaa
2423	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2424	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Xaa
2425	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2426	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2427	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
2428	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2429	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2430	13	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys

[0079]

2431	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2432	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2433	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2434	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2435	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2436	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2437	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2438	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2439	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2440	13	Asp	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2441	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2442	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2443	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2444	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2445	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2446	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2447	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2448	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2449	13	Asp	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2450	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2451	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2452	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2453	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2454	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2455	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2456	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2457	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2458	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2459	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2460	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2461	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2462	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2463	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2464	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2465	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2466	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2467	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2468	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2469	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2470	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2471	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2472	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2473	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2474	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2475	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2476	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2477	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2478	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2479	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2480	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2481	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2482	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2483	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2484	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys

[0080]

2485	13	Asp	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2486	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2487	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2488	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2489	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2490	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2491	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2492	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2493	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2494	13	Asp	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2495	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2496	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2497	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2498	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2499	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2500	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2501	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2502	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2503	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2504	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2505	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2506	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2507	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2508	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2509	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2510	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2511	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2512	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2513	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2514	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2515	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2516	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2517	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2518	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2519	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2520	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2521	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2522	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2523	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2524	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2525	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2526	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2527	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2528	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2529	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2530	13	Asp	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2531	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2532	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2533	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2534	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2535	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2536	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2537	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2538	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys

2539	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2540	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2541	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2542	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2543	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2544	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2545	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2546	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2547	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2548	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2549	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2550	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2551	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2552	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2553	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2554	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2555	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2556	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2557	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
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2560	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2561	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2562	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2563	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2564	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2565	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2566	13	Asp	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2567	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2568	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2569	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2570	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2571	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2572	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2573	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2574	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2575	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2576	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2577	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2578	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2579	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2580	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2581	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2582	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2583	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2584	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2585	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2586	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2587	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2588	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2589	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2590	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2591	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2592	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa

[0082]

2593	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2594	13	Asp	Xaa	Glu	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2595	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2596	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2597	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2598	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2599	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2600	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2601	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2602	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2603	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2604	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2605	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2606	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2607	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2608	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2609	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2610	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2611	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2612	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2613	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2614	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2615	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2616	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2617	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2618	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Xaa	Lys
2619	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Xaa
2620	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2621	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2622	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Xaa	Lys
2623	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Xaa
2624	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2625	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2626	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2627	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2628	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2629	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2630	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2631	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
2632	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Lys
2633	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Xaa
2634	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2635	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Xaa	Lys
2636	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Xaa
2637	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2638	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Xaa
2639	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2640	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2641	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Lys
2642	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Xaa
2643	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2644	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Xaa
2645	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2646	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys

[0083]

2647	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
2648	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2649	13	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2650	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2651	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2652	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2653	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2654	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2655	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2656	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2657	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2658	13	Asp	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2659	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2660	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2661	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2662	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2663	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2664	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2665	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2666	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2667	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2668	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2669	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2670	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2671	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2672	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2673	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
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2675	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2676	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2677	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2678	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2679	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2680	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2681	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2682	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2683	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2684	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2685	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2686	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2687	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2688	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2689	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2690	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2691	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2692	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
2693	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2694	13	Asp	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2695	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2696	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2697	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2698	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2699	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2700	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys

[0084]

2701	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
2702	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
2703	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2704	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2705	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
2706	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
2707	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2708	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2709	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2710	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2711	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2712	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2713	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2714	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2715	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2716	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
2717	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
2718	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
2719	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
2720	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
2721	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
2722	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
2723	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
2724	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
2725	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
2726	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
2727	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
2728	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
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2730	13	Asp	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
2731	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
2732	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
2733	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
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2735	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
2736	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
2737	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
2738	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
2739	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
2740	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
2741	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
2742	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
2743	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
2744	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
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2753	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
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2755	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
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2757	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
2758	13	Asp	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
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2765	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
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2787	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Xaa
2788	13	Asp	Ala	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
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3154	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3155	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3156	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3157	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3158	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3159	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3160	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3161	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3162	12	Xaa	Xaa	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3163	12	Xaa	Xaa	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3164	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3165	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3166	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3167	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3168	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3169	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3170	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3171	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3172	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3173	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3174	12	Xaa	Xaa	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3175	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3176	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3177	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3178	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3179	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3180	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3181	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3182	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3183	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3184	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3185	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys

[0093]

3186	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3187	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3188	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3189	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3190	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3191	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3192	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3193	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3194	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3195	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3196	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3197	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3198	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3199	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3200	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3201	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3202	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3203	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
3204	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
3205	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
3206	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3207	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
3208	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3209	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
3210	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
3211	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
3212	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
3213	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
3214	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3215	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3216	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
3217	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
3218	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3219	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3220	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3221	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3222	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
3223	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3224	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3225	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3226	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3227	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3228	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3229	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3230	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3231	12	Xaa	Xaa	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3232	12	Xaa	Xaa	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3233	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3234	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3235	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
3236	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
3237	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3238	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3239	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys

[0094]

3240	12	Xaa	Xaa	Xaa	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
3241	12	Xaa	Xaa	Glu	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3242	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3243	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3244	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3245	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3246	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3247	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3248	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3249	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3250	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3251	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3252	12	Xaa	Xaa	Glu	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3253	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3254	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3255	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3256	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3257	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3258	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3259	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3260	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3261	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3262	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3263	12	Xaa	Xaa	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3264	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3265	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3266	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3267	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3268	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3269	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3270	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3271	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3272	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3273	12	Xaa	Xaa	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3274	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3275	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3276	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3277	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3278	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3279	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3280	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3281	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3282	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3283	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3284	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3285	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
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3287	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
3288	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3289	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
3290	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3291	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
3292	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
3293	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys

[0095]

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3296	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
3297	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3298	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
3299	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3300	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
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3302	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3303	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3304	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3305	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3306	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3307	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
3308	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3309	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3310	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3311	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3312	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
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3314	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
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3316	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
3317	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3318	12	Xaa	Xaa	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3319	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3320	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3321	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
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3323	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
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3325	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3326	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3327	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3328	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3329	12	Xaa	Xaa	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3330	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3331	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3332	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3333	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3334	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3335	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3336	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3337	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3338	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3339	12	Xaa	Xaa	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3340	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3341	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3342	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3343	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3344	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3345	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3346	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3347	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa

[0096]

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3349	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3350	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
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3354	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3355	12	Xaa	Xaa	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
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3394	12	Xaa	Xaa	Glu	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3395	12	Xaa	Xaa	Glu	Phe	Arg	Xaa	Xaa	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Lys
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3404	12	Xaa	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
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3409	12	Xaa	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
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3418	12	Xaa	Xaa	Glu	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
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3503	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
3504	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3505	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3506	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3507	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3508	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3509	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa

[0099]

3510	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3511	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3512	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3513	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3514	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3515	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
3516	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3517	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3518	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
3519	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3520	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3521	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
3522	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Lys
3523	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Lys
3524	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Lys
3525	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Xaa	Lys
3526	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
3527	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3528	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Lys
3529	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3530	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
3531	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Xaa	Lys
3532	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Xaa
3533	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3534	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3535	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3536	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Xaa	Lys
3537	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Xaa
3538	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
3539	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3540	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3541	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3542	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
3543	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Xaa	Lys
3544	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3545	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
3546	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Xaa
3547	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3548	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
3549	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
3550	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
3551	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
3552	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
3553	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
3554	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
3555	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
3556	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
3557	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Lys
3558	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Xaa
3559	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
3560	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
3561	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Xaa	Lys
3562	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Xaa
3563	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys

[0100]

3564	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Lys
3565	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Xaa
3566	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
3567	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Xaa
3568	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
3569	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
3570	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
3571	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
3572	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Lys
3573	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
3574	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
3575	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Lys
3576	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Lys
3577	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Xaa
3578	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3579	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Lys
3580	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Xaa
3581	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
3582	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Xaa
3583	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
3584	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3585	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
3586	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
3587	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
3588	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3589	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Xaa	Lys
3590	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
3591	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3592	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Xaa
3593	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3594	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
3595	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
3596	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
3597	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3598	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Xaa
3599	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3600	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3601	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
3602	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
3603	12	Xaa	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3604	12	Xaa	Ala	Xaa	Xaa	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3605	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3606	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3607	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3608	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3609	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3610	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3611	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3612	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3613	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3614	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3615	12	Xaa	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3616	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3617	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys

[0101]

3618	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3619	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3620	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3621	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3622	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3623	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3624	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3625	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3626	12	Xaa	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3627	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3628	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3629	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3630	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3631	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3632	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3633	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3634	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3635	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3636	12	Xaa	Ala	Xaa	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3637	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3638	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3639	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3640	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3641	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3642	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3643	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3644	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3645	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3646	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3647	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3648	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
3649	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
3650	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
3651	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3652	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
3653	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3654	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
3655	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
3656	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
3657	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
3658	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
3659	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
3660	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3661	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
3662	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3663	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
3664	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
3665	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3666	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3667	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3668	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3669	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3670	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
3671	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys

[0102]

3672	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3673	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3674	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3675	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3676	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
3677	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3678	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3679	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
3680	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3681	12	Xaa	Ala	Xaa	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3682	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3683	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3684	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3685	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3686	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3687	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3688	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3689	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3690	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3691	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3692	12	Xaa	Ala	Xaa	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3693	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3694	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3695	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3696	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3697	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3698	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3699	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3700	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3701	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3702	12	Xaa	Ala	Xaa	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3703	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3704	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3705	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3706	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3707	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3708	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3709	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3710	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3711	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3712	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3713	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3714	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
3715	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
3716	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
3717	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3718	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
3719	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3720	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
3721	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
3722	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
3723	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
3724	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
3725	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa

[0103]

3726	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3727	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
3728	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3729	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3730	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
3731	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3732	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3733	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3734	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3735	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3736	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
3737	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3738	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3739	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3740	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3741	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3742	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
3743	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3744	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3745	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
3746	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3747	12	Xaa	Ala	Xaa	Phe	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3748	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3749	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3750	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3751	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3752	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3753	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3754	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3755	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3756	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3757	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3758	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3759	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3760	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3761	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3762	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3763	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3764	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3765	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3766	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3767	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3768	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3769	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
3770	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
3771	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
3772	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3773	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
3774	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3775	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
3776	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
3777	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
3778	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
3779	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys

[0104]

3780	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
3781	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3782	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
3783	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3784	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
3785	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
3786	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3787	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3788	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
3789	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3790	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3791	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
3792	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3793	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3794	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3795	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3796	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3797	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
3798	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3799	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3800	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
3801	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3802	12	Xaa	Ala	Xaa	Phe	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3803	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3804	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3805	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
3806	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3807	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3808	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3809	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3810	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3811	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
3812	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3813	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3814	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
3815	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
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3817	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
3818	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
3819	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
3820	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
3821	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
3822	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
3823	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
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3825	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
3826	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
3827	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
3828	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
3829	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
3830	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
3831	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
3832	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
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3834	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
3835	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
3836	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
3837	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
3838	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
3839	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
3840	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
3841	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
3842	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
3843	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
3844	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
3845	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
3846	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
3847	12	Xaa	Ala	Xaa	Phe	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
3848	12	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
3849	12	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
3850	12	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
3851	12	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
3852	12	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
3853	12	Xaa	Ala	Xaa	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
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4031	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
4032	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4033	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4034	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4035	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4036	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4037	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4038	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4039	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4040	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
4041	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4042	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4043	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4044	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4045	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4046	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4047	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4048	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4049	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys

[0106]

4050	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4051	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
4052	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
4053	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
4054	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
4055	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
4056	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
4057	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4058	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
4059	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
4060	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
4061	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
4062	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
4063	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
4064	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4065	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
4066	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4067	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4068	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
4069	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
4070	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4071	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4072	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
4073	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
4074	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
4075	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4076	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
4077	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
4078	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
4079	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4080	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
4081	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4082	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4083	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
4084	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4085	12	Xaa	Ala	Glu	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4086	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4087	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4088	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4089	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4090	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4091	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4092	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4093	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4094	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
4095	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4096	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
4097	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
4098	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
4099	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
4100	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
4101	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
4102	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4103	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys

[0107]

4104	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
4105	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
4106	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
4107	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
4108	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
4109	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4110	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
4111	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4112	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4113	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
4114	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
4115	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4116	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4117	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
4118	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
4119	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
4120	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4121	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
4122	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
4123	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
4124	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4125	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
4126	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4127	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4128	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
4129	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4130	12	Xaa	Ala	Glu	Xaa	Arg	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4131	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4132	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
4133	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
4134	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
4135	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
4136	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
4137	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
4138	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4139	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
4140	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
4141	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
4142	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
4143	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
4144	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
4145	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4146	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
4147	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4148	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4149	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
4150	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
4151	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4152	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4153	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
4154	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
4155	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
4156	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4157	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys

[0108]

4158	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
4159	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
4160	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4161	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
4162	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4163	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4164	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
4165	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4166	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4167	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
4168	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Lys
4169	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Lys
4170	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Lys
4171	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Xaa	Lys
4172	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
4173	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4174	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Lys
4175	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4176	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4177	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Xaa	Lys
4178	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Xaa
4179	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
4180	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4181	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
4182	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Xaa	Lys
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4190	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4191	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
4192	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Xaa
4193	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
4194	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
4195	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
4196	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
4197	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
4198	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
4199	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
4200	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
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4202	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
4203	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Lys
4204	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Xaa
4205	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
4206	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
4207	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Xaa	Lys
4208	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Xaa
4209	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
4210	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Lys
4211	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Xaa

4212	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
4213	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Xaa
4214	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
4215	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
4216	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
4217	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
4218	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Xaa	Lys
4219	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Xaa
4220	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
4221	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Lys
4222	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Lys
4223	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Xaa
4224	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4225	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Lys
4226	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Xaa
4227	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4228	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Xaa
4229	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
4230	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
4231	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
4232	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
4233	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
4234	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4235	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Xaa	Lys
4236	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
4237	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
4238	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Xaa
4239	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
4240	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
4241	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
4242	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
4243	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
4244	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Xaa
4245	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
4246	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
4247	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
4248	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
4249	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4250	12	Xaa	Ala	Glu	Xaa	Arg	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
4251	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
4252	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4253	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4254	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4255	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4256	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4257	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4258	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4259	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4260	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
4261	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4262	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4263	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4264	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4265	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys

[0110]

4266	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4267	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4268	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4269	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
4270	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4271	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
4272	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
4273	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
4274	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
4275	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
4276	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
4277	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4278	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
4279	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
4280	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
4281	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
4282	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
4283	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
4284	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4285	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
4286	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4287	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4288	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
4289	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
4290	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4291	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4292	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
4293	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
4294	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
4295	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4296	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
4297	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
4298	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
4299	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4300	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
4301	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4302	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4303	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
4304	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4305	12	Xaa	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4306	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4307	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4308	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4309	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4310	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4311	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4312	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4313	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4314	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
4315	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4316	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
4317	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
4318	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
4319	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys

[0111]

4320	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
4321	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
4322	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4323	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
4324	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
4325	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
4326	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
4327	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
4328	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
4329	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4330	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
4331	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4332	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4333	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
4334	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
4335	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4336	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4337	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
4338	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
4339	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
4340	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4341	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
4342	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
4343	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
4344	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4345	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
4346	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4347	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4348	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
4349	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4350	12	Xaa	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4351	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4352	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
4353	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
4354	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
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4356	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
4357	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
4358	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
4359	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
4360	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
4361	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
4362	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
4363	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
4364	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
4365	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Xaa	Glu	Val	His	His	Gln	Lys
4366	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
4367	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
4368	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
4369	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
4370	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
4371	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
4372	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
4373	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys

[0112]

4374	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
4375	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
4376	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
4377	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
4378	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
4379	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
4380	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
4381	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
4382	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
4383	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Lys
4384	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
4385	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Lys
4386	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Xaa
4387	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Lys
4388	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Lys
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4393	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
4394	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Lys
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4397	12	Xaa	Ala	Glu	Phe	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Xaa	Lys
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4760	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
4761	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
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4765	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Xaa	Lys
4766	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Xaa
4767	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
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4770	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Xaa	Tyr	Glu	Xaa	His	His	Xaa	Lys
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4808	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
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4938	12	Xaa	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Xaa
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6173	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
6174	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Xaa
6175	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
6176	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
6177	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
6178	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
6179	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Xaa
6180	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
6181	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Xaa	Lys
6182	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
6183	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
6184	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Xaa
6185	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
6186	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
6187	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
6188	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
6189	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
6190	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Xaa
6191	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
6192	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
6193	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
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6195	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
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6200	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Xaa	Lys
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6207	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Lys
6208	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
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6211	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Lys
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6217	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Xaa
6218	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
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6235	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Gln	Xaa
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6247	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Lys
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6254	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	Xaa	Gln	Lys
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6256	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Xaa
6257	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
6258	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	Xaa	Gln	Lys
6259	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Xaa	Lys
6260	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Xaa
6261	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
6262	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Xaa	Lys
6263	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Xaa

[0115]

6264	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
6265	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Xaa
6266	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
6267	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
6268	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	Xaa	Gln	Lys
6269	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Xaa	Lys
6270	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Xaa
6271	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
6272	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Xaa	Lys
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6276	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Lys
6277	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Xaa
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6279	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Xaa
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6282	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Xaa	Lys
6283	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Xaa
6284	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Xaa
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6287	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Xaa
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6300	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Lys
6301	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Xaa
6302	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Lys
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6304	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Xaa
6305	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Lys
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6312	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
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6316	12	Asp	Xaa	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
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[0116]

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6323	12	Asp	Ala	Xaa	Xaa	Xaa	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
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6351	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Gln	Lys
6352	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	His	Gln	Lys
6353	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Gln	Lys
6354	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
6355	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
6356	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
6357	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
6358	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
6359	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
6360	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
6361	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
6362	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	His	Gln	Lys
6363	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
6364	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
6365	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
6366	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
6367	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
6368	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
6369	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
6370	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys
6371	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa

[0117]

6372	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
6373	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
6374	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	Xaa	Gln	Lys
6375	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
6376	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
6377	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
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6379	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Lys
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6381	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
6382	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Xaa	Lys
6383	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	Xaa	Gln	Xaa
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6385	12	Asp	Ala	Xaa	Xaa	Xaa	His	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
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6393	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
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6397	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Xaa	Ser	Gly	Tyr	Glu	Val	His	His	Gln	Lys
6398	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
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6401	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
6402	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Xaa	Gly	Tyr	Glu	Val	Xaa	His	Gln	Lys
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6418	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Lys
6419	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Xaa	Lys
6420	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Xaa
6421	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	His	Gln	Lys
6422	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	His	Gln	Lys
6423	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Gln	Lys
6424	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Gln	Lys
6425	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Xaa	Lys

[0119]

6426	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Xaa
6427	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Xaa	Val	His	His	Gln	Lys
6428	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	His	Gln	Lys
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6430	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Xaa	Lys
6431	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Xaa
6432	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Xaa	His	His	Gln	Lys
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6440	12	Asp	Ala	Xaa	Xaa	Arg	Xaa	Asp	Ser	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
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6443	12	Asp	Ala	Xaa	Xaa	Arg	His	Xaa	Xaa	Xaa	Tyr	Glu	Val	His	His	Gln	Lys
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6521	12	Asp	Ala	Xaa	Xaa	Arg	His	Asp	Xaa	Gly	Tyr	Glu	Val	His	His	Xaa	Xaa
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8134	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	His	Gln	Lys
8135	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Lys
8136	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Lys
8137	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Xaa
8138	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Gln	Lys
8139	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Xaa	Lys
8140	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Xaa
8141	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Gln	Lys
8142	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Xaa
8143	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Xaa	Lys
8144	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Xaa	Tyr	Glu	Val	His	His	Gln	Xaa
8145	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Lys
8146	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Gln	Lys
8147	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	Xaa	Gln	Lys
8148	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Xaa	Lys
8149	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Xaa
8150	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Xaa	Val	His	His	Gln	Lys
8151	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
8152	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
8153	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Lys

[0121]

8154	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Xaa
8155	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Gln	Lys
8156	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
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8161	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Gln	Xaa
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8166	12	Asp	Ala	Glu	Phe	Xaa	Xaa	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
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8314	12	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Xaa	Xaa
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8316	12	Asp	Ala	Glu	Phe	Xaa	His	Xaa	Ser	Gly	Tyr	Glu	Val	Xaa	His	Gln	Xaa
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8488	12	Asp	Ala	Glu	Phe	Xaa	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
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9203	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	Xaa	Gln	Xaa
9204	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	Xaa	Gln	Lys
9205	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Xaa	Xaa
9206	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Xaa	Lys
9207	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Xaa	Val	His	His	Gln	Xaa
9208	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	Xaa	Xaa	Gln	Lys
9209	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	Xaa	His	Xaa	Lys
9210	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	Xaa	His	Gln	Xaa
9211	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	Xaa	His	Gln	Lys
9212	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	Xaa	His	Xaa	Lys
9213	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	Xaa	Gln	Xaa
9214	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	Xaa	Gln	Lys
9215	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Xaa	Xaa
9216	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Xaa	Lys
9217	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Xaa	His	His	Gln	Xaa
9218	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	Xaa	Xaa	Lys
9219	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	Xaa	Gln	Xaa
9220	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	Xaa	Gln	Lys
9221	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Xaa	Xaa
9222	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Xaa	Lys
9223	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	Xaa	His	Gln	Xaa
9224	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Xaa	Xaa
9225	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Xaa	Lys
9226	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Xaa	Glu	Val	His	Xaa	Gln	Xaa
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9228	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	Xaa	Xaa	Gln	Lys
9229	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	Xaa	His	Xaa	Lys
9230	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	Xaa	His	Gln	Xaa
9231	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
9232	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	Xaa	Xaa	Lys
9233	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	Xaa	Gln	Xaa

9234	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	Xaa	Gln	Lys
9235	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Xaa	Xaa
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9237	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Xaa	His	His	Gln	Xaa
9238	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	Xaa	Xaa	Lys
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9240	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	Xaa	Gln	Lys
9241	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Xaa	Xaa
9242	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Xaa	Lys
9243	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	Xaa	His	Gln	Xaa
9244	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Xaa	Xaa
9245	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Xaa	Lys
9246	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	Xaa	Gln	Xaa
9247	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Xaa	Val	His	His	Xaa	Xaa
9248	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	Xaa	Xaa	Lys
9249	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Xaa
9250	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	Xaa	Gln	Lys
9251	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Xaa	Xaa
9252	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	Xaa	His	Xaa	Lys
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9255	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	Xaa	Xaa	Lys
9256	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Xaa	His	Xaa	Gln	Xaa
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9259	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Xaa	Lys
9260	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	Xaa	Gln	Xaa
9261	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	Xaa	His	Xaa	Xaa
9262	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Xaa	Tyr	Glu	Val	His	Xaa	Xaa	Xaa
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9264	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	Xaa	His	Gln	Xaa
9265	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	Xaa	His	Gln	Lys
9266	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	Xaa	Xaa	Lys
9267	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	Xaa	Gln	Xaa
9268	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	Xaa	Gln	Lys
9269	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Xaa	Xaa
9270	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Xaa	Lys
9271	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Xaa	His	His	Gln	Xaa
9272	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	Xaa	Xaa	Lys
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9275	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Xaa	Xaa
9276	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Xaa	Val	Xaa	His	Xaa	Lys
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9284	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	Xaa	Gln	Lys
9285	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Xaa	Xaa
9286	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Xaa	Lys
9287	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	Xaa	His	Gln	Xaa

9288	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Xaa	Xaa
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9290	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	Xaa	Gln	Xaa
9291	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Xaa	His	His	Xaa	Xaa
9292	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Xaa	Xaa
9293	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	Xaa	Xaa	Xaa	Lys
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9296	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Xaa	Glu	Val	His	Xaa	Xaa	Xaa
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9298	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Lys
9299	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
9300	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Xaa	Lys
9301	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	Xaa	His	Gln	Xaa
9302	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Xaa	His	Xaa	Xaa	Xaa
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9307	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	Xaa	Gln	Xaa
9308	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	Xaa	His	Xaa	Xaa
9309	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Xaa	Val	His	Xaa	Xaa	Xaa
9310	12	Asp	Ala	Glu	Phe	Arg	His	Asp	Ser	Gly	Tyr	Glu	Xaa	Xaa	Xaa	Xaa	Lys

[0122]

표 1의 SEQ ID NO : 1 ~ 9310 에서 Xaa는 20개의 아미노산 중 선택된 어느 하나의 아미노산이거나 해당 위치의 아미노산이 결실된 경우를 나타낸다. 나아가 Xaa의 위치가 N 말단으로부터 1, 3, 7, 11 위치인 경우에는 극 산성인 아미노산(polar acidic amino acid)이 적합할 수 있다. 극 산성인 아미노산으로는 Asp, Glu 등이 적합할 수 있다. N 말단으로부터 5, 6, 13, 14, 16 위치인 경우에는 극 염기성인 아미노산(polar basic amino acid)이

적합할 수 있다. 극 염기성인 아미노산으로는 Asn, Gln, His, Lys, Arg 등이 사용될 수 있다. N 말단으로부터 2, 12, 17 위치인 경우에는 소수성 아미노산(hydrophobic amino acid)이 적합할 수 있다. 소수성 아미노산으로는 Ala, Val, Ile, Leu, Met, Phe, Tyr, Trp 등이 사용될 수 있다.

[0123] 도 1 내지 도 4에 예시된 바와 같이 신규 펩타이드가 기능적 펩타이드 단편(FPF)을 2개 포함하는 경우에는 신규 펩타이드는 하기 일반식 1로 표시되는 펩타이드 다이머일 수 있다.

[0124] [일반식 1]

[0125] FPF-PAx-LC-PAx-FPF

[0126] 상기 식 중 FPF는 천연 Aβ₁₋₁₇ 과 적어도 10개 이상의 아미노산 서열이 동일한 서열을 가지는 펩타이드이고,

[0127] 상기 PA는 4 내지 16개의 아미노산을 갖는 펩타이드이고,

[0128] 상기 x는 0 또는 1이고,

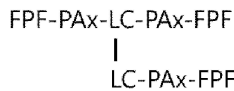
[0129] 상기 LC는 적어도 2개 이상의 아미노기를 가지는 아미노산이다.

[0130] 신규 펩타이드가 화학적으로 합성된 경우에는 링크 코어(LC)가 C 말단을 기능적 펩타이드 단편(FPF)의 자유 말단이 각각 N 말단을 구성한다.

[0131] 신규 펩타이드가 바이오 합성된 경우에는 링크 코어(LC)가 펩타이드의 중간에 위치하고, 기능적 펩타이드 단편(FPF)의 자유 말단 중 하나는 N 말단이고, 다른 하나는 C 말단일 수 있다.

[0132] 도 5에 예시된 바와 같이 신규 펩타이드가 기능적 펩타이드 단편(FPF)을 3개 포함하는 경우에는 신규 펩타이드는 하기 일반식 2로 표시되는 펩타이드 트라이머(trimer)일 수 있다.

[0133] [일반식 2]



[0134]

[0135] 상기 식 중, FPF는 천연 Aβ₁₋₁₇ 과 적어도 10개 이상의 아미노산 서열이 동일한 서열을 가지는 펩타이드이고,

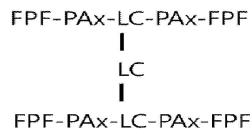
[0136] 상기 PA는 4 내지 16개의 아미노산을 갖는 펩타이드이고,

[0137] 상기 x는 0 또는 1이고,

[0138] 상기 LC는 적어도 2개 이상의 아미노기를 가지는 아미노산이다.

[0139] 도 6에 예시된 바와 같이 신규 펩타이드가 기능적 펩타이드 단편(FPF)을 4개 포함하는 경우에는 신규 펩타이드는 화학식 3으로 표시되는 펩타이드 테트라머(tetramer)일 수 있다.

[0140] [화학식 3]



[0141]

[0142] 상기 식 중, FPF는 천연 Aβ₁₋₁₇ 과 적어도 10개 이상의 아미노산 서열이 동일한 서열을 가지는 펩타이드이고,

[0143] 상기 PA는 4 내지 16개의 아미노산을 갖는 펩타이드이고,

[0144] 상기 x는 0 또는 1이고,

[0145] 상기 LC는 적어도 2개 이상의 아미노기를 가지는 아미노산이다.

[0146] SEQ ID NO : 1 ~ 41038로 표시된 기능적 펩타이드 단편(FPF)은 다이머, 트라이머, 테트라머를 구성하는 펩타이드를 설명하였으나, 기능적 펩타이드 단편(FPF)이 모노머 상태로도 수용성 Aβ 응집체 및/또는 불수용성 Aβ 응집체를 분해(disaggregate)하거나 집적을 억제(inhibit aggregation)할 수 있다.

[0147] 상기 펩타이드를 구성하는 아미노산에는 L-체, D-체, DL-체가 존재하며, 실시예들에 따른 펩타이드를 구성하는

아미노산은 이들을 모두 포함할 수 있다. 펩타이드는 변이체를 포함하는 것으로, 자연적 변이 또는 인공적 변이에 의하여 주요 활성에 변화를 주지 않으면서 펩타이드 구조의 일부가 변이된 것을 포함할 수 있다.

[0148] 펩타이드 제조

[0149] 실시예들에 따른 펩타이드는 당 분야에 널리 공지된 다양한 방법으로 합성할 수 있다. 상세하게는 화학적 합성을 통하여 시험관 내에서 제조되거나, 유전자 재조합과 단백질 발현 시스템을 이용하여 제조하거나 무세포 단백질 합성법 등과 같은 바이오 합성을 통하여 제조될 수 있다.

[0150] 화학적 합성을 사용할 경우에는 펩타이드를 Schroder and Lubke 저, 「The Peptides」 제1 권, Academic Press, New York (1965) 등에 기재된 방법에 의해 제조할 수 있고, 용액상 합성 또는 고체상 합성 등의 방법에 의해 제조할 수 있다. 펩타이드 결합을 형성하기 위한 방법의 예는 아실아지드법 아실하라이드법, 아실이미다졸법, 카르보디이미드법, 포스포니움법, 무수물법, 혼합무수물법, 산화-환원법, 및 Woodward 시약 K 를 사용하는 방법 등이 있다. 축합 반응을 수행하기 전에, 반응에 관여하지 않은 카르복실기, 아미노기 등을 보호시킬 수 있고, 축합 반응에 관여하는 카르복실기 등을 당 분야에 공지된 방법으로 활성화시킬 수 있다. 카르복실기를 보호하는 기의 예는 메틸, 티-부틸, 아릴, 펜타플루오로페닐, 벤질, 파라-메톡시벤질, 또는 메톡시메톡시메틸 같은 에스테르-형성기를 들 수 있다. 아미노기를 보호하는 기의 예는 트리틸카르보닐, 아릴옥시카르보닐, 시클로헥실옥시카르보닐, 트리클로로에틸옥시카르보닐, 벤질옥시카르보닐, 티-부톡시카르보닐, 및/또는 9-플루오레닐메틸옥시카르보닐 등을 들 수 있다. 카르복실기의 활성 형태의 예는 혼합무수물, 아지드, 아실클로라이드 또는 활성 에스테르[알코올 (예를 들어, 펜타클로로페놀, 2,4-디니트로페놀, 시아노메틸알코올, p-니트로페놀, N-히드록시-5-노르보르넨-2,3-디카르복실이미드, N-히드록시숙신이미드, N-히드로옥시프탈아미드, 또는 1-히드록시벤조트리아졸)과의 에스테르] 등을 들 수 있다. 펩타이드 결합을 형성하기 위한 축합 반응에 사용할 수 있는 용매는 벤젠, 톨루엔, 헥산, 아세톤, 니트로 메탄, 시클로 헥산, 에테르, 클로로포름, 디클로로메탄, 에틸아세테이트, N,N-디메틸포름아미드, 디메틸술폰, 피리딘, 디옥산, 테트라히드로푸란, 물, 메탄올, 또는 에탄올 등의 단일 용매 또는 이들의 혼합용매일 수 있다. 반응 온도는 반응에 일반적으로 사용되는 약 -70℃ 내지 100℃의 범위일 수 있고, 보다 바람직하게는 -30℃ 내지 30℃의 범위일 수 있다. 펩타이드 보호기를 제거하는 반응은 보호기의 종류에 따라 다르지만, 펩타이드 결합에 아무런 영향을 주지 않고 보호기를 이탈시킬 수 있는 산화합물, 염기화합물, 또는 전이금속 등을 이용하여 제거할 수 있다. 보호기를 산처리 예를 들어, 염화 수소, 브롬화수소, 플루오르화수소, 아세트산, 메탄술폰산, 트리플루오로메탄술폰산, 트리플루오로아세트산, 트리메틸클로로실란, 또는 이들의 혼합물로 처리함으로써 제거시킬 수 있다. 산처리로 보호기를 제거하는 반응을 수행할 때, 아니솔, 페놀 및 티오아니솔 등을 보조제로 첨가하여 반응을 촉진시킬 수 있다. 보호기를 염기처리 예를 들어, 암모니아, 디에틸아민, 히드라진, 몰포린, 엔-메틸피롤리딘, 피페리딘, 탄산나트륨, 또는 이들 염기의 혼합물을 이용하여 제거할 수 있다. 보호기를 전이금속처리 예를 들어, 아연, 수은, 팔라듐/수소 등을 이용하여 제거할 수 있다. 반응 완결 후, 통상적인 펩타이드 정제 방법 예를 들어, 추출, 층 분리, 고체침전, 재결정 또는 컬럼 크로마토그래피에 의해 펩타이드를 정제할 수 있다.

[0152] 약제학적 제제, 제형, 조성물

[0153] 실시예들에 따른 펩타이드는 염기의 형태(base form) 또는 약학적으로 허용가능한 염 형태(pharmaceutically acceptable salt)로 존재할 수도 있다. 약학적으로 허용가능한 염은 해당 화합물과 유기산 또는 무기산의 조합에 의해 얻어진 염을 지칭한다. 염의 예로는 염산염, 황산염, 인산염, 초산염, 구연산염, 주석산염, 숙신산염, 젖산염, 말레산염, 푸마르산염, 옥살산염, 메탄술폰산염, 또는 파라톨루엔술폰산염 등을 들 수 있다.

[0154] 실시예들에 따른 펩타이드는 표적화 서열, 태그(tag), 표지된 잔기, 반감기 또는 펩타이드의 안정성을 증가시키기 위한 특정 목적으로 고안된 아미노산 서열 등을 추가로 포함할 수 있다. 실시예들에 따른 펩타이드는 당 사들 화합물, 지질 화합물, 핵산 화합물, 다른 종류의 펩타이드 또는 단백질 등을 포함할 수 있다. 실시예들에 따른 펩타이드는 이펙터(effectors), 약물, 프로드럭(prodrug), 독소, 펩타이드, 전달 분자 등의 커플링 파트너와 연결될 수 있다. 실시예들에 따른 펩타이드는 나노파티클이나 리포솜 등의 다양한 제형(formulation)에 탑재될 수 있고, 상기 제형의 내외부 표면에 연결되어 다양한 형태를 가질 수 있다.

[0155] 실시예들에 따른 약제학적 조성물은 펩타이드, 또는 약학적으로 허용가능한 그의 염으로 이루어진 활성 약제학적 유효성분과 함께 약제학적으로 적합하고 생리학적으로 허용되는 보조제와 함께 제제화할 수 있다. 보조제로는 부형제, 붕해제, 감미제, 결합제, 피복제, 팽창제, 윤활제, 활택제 또는 향미제 등을 사용할 수 있다. 또한,

추가로 약제학적으로 허용가능한 담체를 1종 이상 포함하여 약제학적 조성물로 제제화될 수 있다.

- [0156] 약학적 조성물 제제는 약제학적으로 적합하고 생리학적으로 허용되는 첨가제와 함께 주사제, 좌제, 분말, 경피 투여용 패치제 등의 다양한 제형으로 만들어질 수 있다.
- [0157] 약제학적으로 적합하고 생리학적으로 허용되는 첨가제는 당업자에게 잘 알려진 여러 가지 인자에 따라 적용될 수 있는데, 예를 들면 이용된 특정 생리활성물질, 이의 농도, 안정성 및 의도된 생체이용성; 치료하고자 하는 질환 및 질병 또는 상태; 치료받을 개체, 나이, 크기 및 일반적인 상태; 조성물을 투여하는데 이용되는 경로, 예를 들어, 안구, 국소, 경피 및 근육 등의 요인을 고려해야 하나, 이에 제한되지는 않는다. 일반적으로 경구 투여 경로 이외의 생리활성물질 투여에 이용가능한 첨가제에는 D5W(물 중에서 5% 포도당), 텍스트로즈 및 생리학적인 염을 용적의 5% 이내로 포함하는 수용액 등을 포함하며, 병소 내 국소주사의 경우 치료 효과를 증진시키고 지속시간을 증가시키기 위하여 여러 가지 주사가 가능한 하이드로겔(hydrogel)을 사용할 수 있다. 또한 약학적으로 이용가능한 첨가제는 보존제 및 항산화제와 같은 활성 성분들의 안정성을 보장시킬 수 있는 추가 성분들을 포함할 수 있다. 본 발명의 펩타이드 또는 약학적으로 허용가능한 그의 염, 염화물, 또는 조성물은 해당분야의 적절한 방법으로 제형화할 수 있으며, 예를 들어 Remington's Pharmaceutical Science, Mack Publishing Company, Easton PA(최근판) 등에 개시되어 있는 방법을 참조하여 각 질환에 따라 또는 성분에 따라 바람직하게 제형화할 수 있다.
- [0158] 실시예들에 따른 펩타이드 또는 약학적으로 허용가능한 그의 염은 생리 식염수 용액으로 보관할 수 있고, 약제학적 첨가제 또는 부형제 등을 첨가 후 앰플(ampule)에 동결 건조시킬 수 있으며, 이것을 투여하기 위해 사용할 때는 생리 식염수 등에 용해시켜 주사제로 사용할 수 있다.
- [0160] 아밀로이드성 질병 예방, 개선 또는 치료제로서의 용도
- [0161] 실시예들에 따른 펩타이드는 수용성 Aβ 응집체 및/또는 불수용성 Aβ 응집체를 매우 효과적으로 분해하거나 효과적으로 집적을 억제할 수 있다. 따라서, 실시예들에 따른 펩타이드 또는 그의 약학적으로 허용가능한 그의 염을 약제학적 성분으로 포함하는 조성물은 Aβ의 집적(aggregation)에 기인한 아밀로이드성 질병을 예방 또는 치료할 수 있다. 예방이란 조성물의 투여로 질병을 억제시키거나 발병을 지연시키는 모든 행위를 의미한다. 치료란 조성물의 투여로 질병이 호전(개선)되거나 이롭게 변경하는 모든 행위를 의미한다.
- [0162] 아밀로이드성 질병은 알츠하이머병(Alzheimer's disease), 대뇌 아밀로이드 맥관병증, 다운증후군, 아밀로이드성 뇌졸중(stroke), 전신성 아밀로이드병, 더취(Dutch)형 아밀로이드증, 니만-픽병 등을 예시로 들 수 있으나 Aβ의 집적(aggregation)에 기인한 질병이라면 어느 질병이라도 대상이 될 수 있다.
- [0163] 특히, 실시예들에 따른 펩타이드가 시험관 내(in vitro)에서 Aβ의 분해 및 응집 억제를 일으켜서(도7 내지 도12 참조) Aβ로 인해 유도된 독성을 감소시킨다는 것을 확인하였을 뿐만 아니라(도 15a 내지 15d 참조), 실시예들에 따른 펩타이드의 정맥 투여가 APP/PS1 형질 전환 마우스 모델의 뇌에서 Aβ플라크를 감소시킨다는 것을 확인하였다(도 14a 내지 14d 참조). 또한 Aβ투여를 통해 유도된 AD 마우스 모델에 실시예들에 따른 펩타이드를 투여했을 때 세포사멸 신호전달(apoptotic signaling) 조절을 통해 Aβ유도된 세포 독성을 경감시킬 수 있음을 확인할 수 있었고(도 15a 내지 15d 참조), 인지기능 저하를 개선하는 효과를 보임을 확인하였다(도 16a 내지 16e 참조). 이러한 결과들은 실시예들에 따른 펩타이드가 알츠하이머병(Alzheimer's disease, AD) 질환 치료를 위한 약제학적 조성물의 활성 약제학적 성분(Active Pharmaceutical Ingredient)이 될 수 있음을 나타낸다.
- [0164] 따라서, 본 기재는 실시예들에 따른 펩타이드 또는 약학적으로 허용가능한 그의 염을 투여를 필요로 하는 인간을 포함한 포유류에게 투여하여 아밀로이드성 질병을 치료할 수 있다. 포유류는 실시예들에 따른 펩타이드 또는 약학적으로 허용가능한 그의 염을 투여하여 아밀로이드성 질병이 억제 또는 감소될 수 있는 소, 말, 양, 돼지, 염소, 낙타, 영양, 개 또는 고양이 등의 가축에게도 사용될 수 있다. 펩타이드 또는 약학적으로 허용가능한 그의 염의 약학적으로 유효한 양은 특별히 제한되지 않지만, 장 질환 증상의 정도, 환자의 연령, 체중, 건강상태, 성별, 투여 경로 및 치료기간 등에 따라 적절히 변화될 수 있다.
- [0165] 실시예들에 따른 펩타이드 또는 약학적으로 허용가능한 그의 염은 주로 비경구적인 방법으로, 예를 들면 국소주사, 정맥 또는 피하주사, 대뇌실내 또는 척수강내 투여, 경피투여, 혹은 경비투여 또는 직장내 투여로 투여한다. 투여량은 성인(체중 60kg) 기준일 수 있으나, 체중, 신체 상태 등에 달라질 수 있음은 당연하다

- [0167] 기타 용도
- [0168] 실시예들에 따른 펩타이드 또는 그의 염은 퇴행성 신경질환을 진단하는데도 동일하게 이용할 수 있다. 진단 방법의 경우 실시예들에 따른 펩타이드 또는 그의 염, 또는 이들을 포함하는 조성물을 샘플과 반응시키는 단계, 및 펩타이드 또는 그의 염, 또는 이들을 포함하는 조성물과의 반응 전과 후의 샘플 내 베타아밀로이드 농도를 비교하는 단계를 통해서 퇴행성 신경질환의 존재 여부를 진단할 수 있다.
- [0169] 예를 들어, 분석대상이 되는 샘플과 실시예들에 따른 펩타이드 또는 그의 염, 또는 이들을 포함하는 조성물을 반응시키기 전과 후의 농도를 비교하여, 퇴행성 신경질환을 진단할 수 있다. 구체적으로, (a) 실시예들에 따른 펩타이드 또는 그의 염, 또는 이들을 포함하는 조성물을 샘플(혈액 또는 혈장 등)에 투여하기 전의 Aβ의 제1 농도를 측정하고, (b) 실시예들에 따른 펩타이드 또는 그의 염, 또는 이들을 포함하는 조성물들을 샘플에 투여한 후의 Aβ의 제2 농도를 측정하고, (c) 측정한 제1 농도와 제2 농도를 비교하여, 제2 농도가 높으면 퇴행성 신경질환으로 진단할 수 있다. 이 때 사용될 수 있는 샘플은 혈액, 혈장, 혈청뿐만 아니라, 뇌척수액, 타액, 소변, 눈물, 콧물 등과 같은 모든 형태의 바이오 유체(bio-fluid)를 포함할 수 있다.
- [0170] 이와 같은 진단용 조성물 및 진단방법은 체외진단(in vitro) 뿐만 아니라 체내진단(in vivo)에도 적용 가능하다. 예를 들어, 실시예들에 따른 펩타이드 또는 그의 염, 또는 이들을 포함하는 조성물을 체내에 투여하기 전과 후의 Aβ의 농도를 비교하여, 진단하는 것이 가능하다. Aβ의 농도는 이미징 방법에 의해 분석할 수 있다. 이러한 진단 방법은 특별히 제한되지 않고, 이 기술분야에 알려진 다양한 모든 방법을 포함할 수 있다. 예를 들어, 대한민국 공개특허 제2014-0128265호, 대한민국 공개특허 제2014-0128266호 등에 기재된 방법을 이용할 수 있다.
- [0172] 실시예들에 따른 펩타이드 또는 그의 염은 인지장애 예방을 위한 건강기능식품 등과 같은 식품 조성물로 사용될 수도 있다. 식품 조성물로 적용될 경우에는 통상의 식품 조성물과 같이 다양한 향미제 또는 천연 탄수화물 등을 추가 성분으로서 함유할 수 있다.
- [0174] 이하, 본 발명의 이해를 돕기 위하여 바람직한 실험예들을 제시하나, 하기 실험예들은 본 발명을 예시하는 것일 뿐 본 발명의 범위가 하기 실시예에 한정되는 것은 아니다.
- [0176] 펩타이드 제조
- [0177] 제조예 1: P101(0117) (NH₂-SEQ ID NO:1-GGGSGGGS-εK(COOH)-GGGSGGGS-SEQ ID NO:1(parallel)-NH₂) 제조
- [0178] 아민부분이 보호기로 보호된 라이신(Fmoc-Lys(Fmoc)-OH)(1.1 mmol)을 2 ml의 DMF:DCM (Dimethylformamide:dichloromethane=1:1 부피비) 혼합용액에 용해시킨 후 156 μl의 DIC (N,N'-diisopropylcarbodiimide)를 첨가한 다음 2분 동안 초음파 수조에서 활성화시켰다. 그 후 진탕된 혼합물에 0.051 g의 DMAP(4-dimethylaminopyridine)을 용해시키고 상기 혼합물을 카트리지에서 부풀어 오른 레진(TentaGel R PHB 0.125 mmol, 기질)에 1시간 동안 진탕함으로써 무수 커플링 반응을 수행하여 레진과 라이신을 결합하였다. 반응이 완료된 레진은 DMF, DCM 및 DMF 순으로 각 20초 동안 세척하였다.
- [0179] 레진에 결합된 라이신의 Fmoc을 제거하기 위해 20% 피페리딘 (1:4 피페리딘/DMF, v/v) 6 ml 으로 15분씩 2회 진탕하여 제거하였다.
- [0180] 한편, Fmoc-보호된 아미노산을 사용하여 H₂N-GGGSGGGS-COOH 아미노산 서열을 가진 펩타이드 아암(2.2 mmol) 및 SEQ ID 1 (Aβ 1~17)의 기능적 펩타이드 단편(2.2mmol)을 서열의 순서에 따라, 0.2 M 아미노산 5 ml, 1.0 M oxyma 1 ml 및 0.5 M DIC 2 ml을 순서대로 넣어 반응시킨 후 50분 동안 보호기가 제거된 상기 라이신과 반응시켰다
- [0181] 각각 반응 과정 동안 기질이 결합된 펩타이드-기반 레진을 DMF, DCM 및DMF 순으로 각각 20초 동안 세척하고, 상기 Fmoc-보호기를 20% 피페리딘 (1:4 피페리딘/DMF, v/v) 6 ml 으로 15분씩 2회 진탕하여 제거하였다.
- [0182] 상기 과정을 모두 거친 후 Fmoc-보호기가 제거되어 완성된 기질이 결합된 단백질 다이머는 DCM으로 세척하고, 감압하에 보관한 후 TFA/anisole/TIS(95:2.5:2.5, v/v/v)로 4시간 진탕하여 레진과 단백질 다이머를 분리한 다

음 TFA를 감압농축기를 이용하여 완전히 제거하였다. 그 후 단백질 다이머를 30 ml의 디에틸에테르로 처리한 후 15분 동안 3000 rpm 으로 원심분리 하였다. 디에틸에테르의 상층액을 제거 후 다시 30 ml의 디에틸에테르를 넣고 3000 rpm으로 15분 원심분리 한 다음 침전된 백색의 단백질 다이머를 25% 아세트나이트릴 수용액에 녹이고 동결건조하여 백색 고체분말의 평행 입체구조의 단백질 다이머를 얻었다. 동결건조 후에 HPLC를 이용하여 정제 하였다.

[0184] 제조예 2: P101(0317) (NH₂-SEQ ID NO:4-GGGSGGGS-εK(COOH)-GGGSGGGS-SEQ ID NO:4 (parallel)-NH₂) 제조

[0185] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 SEQ ID NO:4 (Aβ 03~17)의 기능적 펩타이드 단편 서열이 되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 P101(0317)을 제조하였다. 제조예 2에서 사용한 SEQ ID NO:4 에서 1, 2 번 위치의 아미노산이 결실된 것(X=0)을 사용하였다.

[0187] 제조예 3: P101(0517) (NH₂-SEQ ID NO:11-GGGSGGGS-εK(COOH)-GGGSGGGS-SEQ ID NO:11 (parallel)-NH₂) 제조

[0188] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 SEQ ID NO:11(Aβ 05~17)의 기능적 펩타이드 단편 서열이 되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 P101(0517)을 제조하였다. 제조예 3에서 사용한 SEQ ID NO:11의 경우 1, 2, 3, 4 번 위치의 아미노산이 결실된 것(X=0)을 사용하였다.

[0190] 제조예 4: P101(0717) (NH₂-SEQ ID NO:22-GGGSGGGS-εK(COOH)-GGGSGGGS-SEQ ID NO:22 (parallel)-NH₂) 제조

[0191] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 SEQ ID NO:15(Aβ 01~13)의 기능적 펩타이드 단편 서열이 되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 P101(0717)을 제조하였다. 제조예 4에서 사용한 SEQ ID NO:11의 경우 1, 2, 3, 4, 5, 6 번 위치의 아미노산이 결실된 것(X=0)을 사용하였다.

[0193] 비교제조예 1: C101(0119) (NH₂- Aβ 1~19-GGGSGGGS-εK(COOH)- Aβ 1~19(parallel)-NH₂) 제조

[0194] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 천연 Aβ 1~19의 서열을 가지는 펩타이드가 연결되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 C101(0119)를 제조하였다.

[0196] 비교제조예 2: C101(0121) (NH₂- Aβ 1~21-GGGSGGGS-εK(COOH)- Aβ 1~21(parallel)-NH₂) 제조

[0197] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 천연 Aβ 1~21의 서열을 가지는 펩타이드가 연결되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 C101(0121)를 제조하였다.

[0199] 비교제조예 3: C101(0123) (NH₂- Aβ 1~23-GGGSGGGS-εK(COOH)- Aβ 1~23(parallel)-NH₂) 제조

[0200] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 천연 Aβ 1~21의 서열을 가지는 펩타이드가 연결되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 C101(0121)를 제조하였다.

[0202] 비교제조예 4: C101(0125) (NH₂- Aβ 1~25-GGGSGGGS-εK(COOH)- Aβ 1~25(parallel)-NH₂) 제조

[0203] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 천연 Aβ 1~25의 서열을 가지는 펩타이드가 연결되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 C101(0125)를 제조하였다.

[0205] 비교제조예 5: C101(0917) (NH₂- Aβ 9~17-GGGSGGGS-εK(COOH)- Aβ 9~17(parallel)-NH₂) 제조

- [0206] SEQ ID NO:1 (Aβ 1~17)의 기능적 펩타이드 단편 대신 천연 Aβ 9~17의 서열을 가지는 펩타이드가 연결되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 C101(0917)를 제조하였다.
- [0208] 비교제조예 6: C101(1117) (NH₂-Aβ 11~17-GGGSGGGs-ε K(COOH)-Aβ 11~17(parallel)-NH₂) 제조
- [0209] SEQ ID NO:1 (Aβ 1~21)의 기능적 펩타이드 단편 대신 천연 Aβ 11~17의 서열을 가지는 펩타이드가 연결되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 C101(1117)를 제조하였다.
- [0211] 비교제조예 7: C101(1317) (NH₂-Aβ 13~17-GGGSGGGs-ε K(COOH)-Aβ 13~17(parallel)-NH₂) 제조
- [0212] SEQ ID NO:1 (Aβ 1~21)의 기능적 펩타이드 단편 대신 천연 Aβ 13~17의 서열을 가지는 펩타이드가 연결되도록 제조하였다는 점을 제외하고는 제조예 1과 동일하게 진행하여 C101(1317)를 제조하였다.
- [0215] 아밀로이드베타(Aβ) 응집 분해 및/또는 응집 억제 효과 측정
- [0216] 시료의 준비
- [0217] Aβ 1~17 모노머 단편으로 이루어진 펩타이드(MAβ (0117)), 제조예 1 내지 4, 비교제조예 1 내지 7에 따라 제조된 펩타이드 다이머를 각각 2.5M 농도가 1% DMSO를 이용하여 녹였다. 그 후, 상기 물질들은 1% DMSO 용액을 이용하여 희석하여 사용하였다.
- [0218] 아밀로이드베타(Aβ) 용액은 Aβ 1~42 모노머를 10mM 농도가 되도록 DMSO에 녹였다. 그 후, DW를 이용하여 100uM 농도가 되도록 희석하고 얼음위에 보관하였다.
- [0219] 한편, Thioflavin-T를 5mM 농도가 되도록 50mM glycine buffer (pH8.5)에 녹였다. 그 후, 50mM glycine buffer (pH8.5)를 사용하여 5uM이 되도록 희석하고 빛을 차단한 상태로 암실에서 보관하였다.
- [0221] 아밀로이드베타(Aβ) 응집 분해 효과 측정
- [0222] 앞에서 준비한 아밀로이드베타(Aβ) 용액을 1.5mL 마이크로 원심분리관에 50uM이 되도록 각각 넣었 후, 37℃에서 72시간 동안 반응시켰다. 상기 1.5mL 마이크로 원심분리관 별로 Aβ 1~17 모노머 단편으로 이루어진 펩타이드(MAβ (0117)), 제조예 1 내지 4, 비교제조예 1 내지 7에 따라 제조된 펩타이드 다이머를 각각 50uM, 250uM의 서로 다른 농도로 각각 처리한 후 37℃에서 48시간 동안 반응시켰다.
- [0223] 반응이 완료된 반응액을 96-웰 형광분석용 플레이트에 25uL씩 각 웰에 넣고, 앞에서 준비한 Thioflavin-T 용액을 각 웰에 75uL씩 넣었다. 상온에서 암실상태로 5분간 반응시킨 후, 다중모드 마이크로플레이트 리더(multi-mode microplate reader)를 이용하여 excitation 450nm, emission 485 nm에서 형광 값을 측정하였다.
- [0224] 측정 결과 아밀로이드베타(Aβ)만을 처리하여 72시간 동안 응집한 군의 형광 값을 %값으로 환산하여 100으로 표시하고 얻어지는 형광 값을 상대적인 값으로 환산하여 도 7 내지 도 9에 도시하였다.
- [0225] 도 7의 결과로부터 모노머(MAβ (0117)) 대비 2개의 기능적 펩타이드 단편을 가지는 P101(0117) 펩타이드가 응집 분해 효과가 거의 3~4배 이상 현저함을 알 수 있다.
- [0226] 도 8의 결과로부터 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지는 것이 응집 분해 효과를 최대 화할 수 있음을 알 수 있다.
- [0227] 도 9의 결과로부터 기능적 펩타이드 단편이 천연 Aβ 1~17의 아미노산 서열과 적어도 10개 이상의 아미노산 서열이 동일할 경우 응집 분해 효과를 유지할 수 있음을 알 수 있다.
- [0229] 아밀로이드베타(Aβ) 응집 억제 효과 측정

- [0230] 앞에서 준비한 아밀로이드베타(A β) 용액을 1.5mL 마이크로 원심분리관에 50 μ M이 되도록 각각 넣은 후 1.5mL 마이크로 원심분리관 별로 A β 1~17 모노머 단편으로 이루어진 펩타이드(MA β (0117)), 제조에 1 내지 4, 비교제조에 1 내지 7에 따라 제조된 펩타이드 다imer를 각각 50 μ M, 250 μ M의 서로 다른 농도로 각각 처리한 후 37 $^{\circ}$ C에서 72시간 동안 반응시켰다.
- [0231] 반응이 완료된 반응액을 96-웰 형광분석용 플레이트에 25 μ L씩 각 웰에 넣고, 앞에서 준비한 Thioflavin-T 용액을 각 웰에 75 μ L씩 넣었다. 상온에서 암실상태로 5분간 반응시킨 후, 다중모드 마이크로플레이트 리더(multi-mode microplate reader)를 이용하여 excitation 450nm, emission 485 nm에서 형광 값을 측정하였다.
- [0232] 측정 결과 아밀로이드베타(A β)만을 처리하여 72시간동안 응집한 군의 형광 값을 %값으로 환산하여 100으로 표시하고 얻어지는 형광 값을 상대적인 값으로 환산하여 도 10 내지 도 12에 도시하였다.
- [0233] 도 10의 결과로부터 모노머(MA β (0117)) 대비 2개의 기능적 펩타이드 단편을 가지는 P101(0117) 펩타이드가 응집 억제 효과가 거의 3~4배 이상 현저함을 알 수 있다.
- [0234] 도 11의 결과로부터 기능적 펩타이드 단편은 최대 17개의 아미노산으로 이루어지는 것이 응집 억제 효과를 최대화할 수 있음을 알 수 있다.
- [0235] 도 12의 결과로부터 기능적 펩타이드 단편이 천연 A β 1~17의 아미노산 서열과 적어도 10개 이상의 아미노산 서열이 동일할 경우 응집 억제 효과를 유지할 수 있음을 알 수 있다.
- [0237] P101(0117)과 A β 올리고머와의 직접적 상호작용 확인
- [0238] P101(0117)이 2xTg-AD 마우스에서 아밀로이드 플라크 및 신경 세포 사멸을 감소시키는 방법을 이해하기 위해, 본 발명자들은 in vitro(시험관내) 물리생물학적 검정 및 구조 검색에 의해 P101(0117)과 A β 42 응집체 사이에 직접적인 상호 작용이 존재하는지를 조사하였다. 본 발명자들은 표면 플라즈몬 공명 분석을 사용하여 결합 동역학을 평가하고 Biacore T200 시스템을 사용하여 친화성을 평가하였다. 그 결과가 도 13에 도시되어 있다.
- [0239] 표면 플라즈몬 공명 분석은 Biacore T200 기기 및 Series S carboxymethylated (CM5) 텍스트란 매트릭스 센서칩 (GE Healthcare)을 사용하여 수행하였다. HBS-EP+ (10 mM HEPES, pH 7.4, 150 mM NaCl, 3 mM EDTA 및 0.05 % 계면활성제 P20)를 25 $^{\circ}$ C에서 런닝 완충액(running buffer)으로 사용하였다. 먼저 본 발명자들은 DMSO (20 mg/ml, w/v)에 A β 42 펩타이드를 용해시키고 증류수에 100배 희석하여 200 μ g/ml로 만들었다. 상기 제조된 A β 42 펩타이드를 37 $^{\circ}$ C에서 7 일 동안 배양하였다. 마지막으로 배양된 A β 42 펩타이드 (200 μ g/ml)를 10 mM 아세트산나트륨용액 (pH 4.0)으로 희석하여 A β 42 응집체 40 μ g/ml를 제조하였다. 그리고나서, 상기 응집체들은 아민 결합 화학에 의해 상기 칩 표면에 공유 결합으로 고정화되었다. 상기 표면 상에 남아있는 활성화된 카르복시 메틸기는 1 M 에탄올아민(pH 8.0)의 투여에 의해 차단되었다. 상기 A β 42 응집체의 고정화 값(immobilization value)은 6000 RU이고 A β 42 응집체의 이론적인 R_{max}는 7017 RU이었다. P101(0117)은 연속 희석된 샘플로서 1% DMSO를 함유하는 PBS-T 런닝 완충액 (10mM 포스페이트, 135 mM NaCl, 27 mM KCl 및 0.005 % 계면활성제 P20)으로 제조하였다. 상기 결합 및 동역학 분석을 위해, P101(0117)을 30 μ L/분의 유속으로 120 초 동안 투여하였다.
- [0240] 도 13에 나타난 바와 같이, 아민 커플링을 통해 CM5 센서칩 상의 리간드로서 A β 42 응집체를 고정시킨 후, 상이한 농도(62.5 ~ 5000 nM)의 P101(0117) 단백질을 채널을 통해 흘렸다. 다양한 형태로 응집된 A β 로 인해 정확한 결합 상수의 계산이 어려움에도 불구하고, 실질적인 곡선 일치 효과(substantial curve fitting efficacy)의 결과 (계산된 χ 의 0.0843 RU²)는 P101(0117)이 A β 42 응집체와 직접적으로 결합하며 이는 용량에 의존적 상호 작용임을 발견하였다.
- [0242] 2xTg-AD 마우스에서 뇌 아밀로이드 플라크 감소 효과 확인
- [0243] A β 40 또는 A β 42 모노머는 집적하여 A β 올리고머(oligomer)를 형성하고, 이들 올리고머가 집적하여 A β 피브릴(fibril)을 형성하고, 이들 피브릴이 집적하여 A β 플라크(plaque)를 형성하고 이렇게 축적된 A β 플라크가 AD 환자의 기억력 결핍을 일으키는 것으로 알려져 있으므로 실시예에 따른 펩타이드(P101(0117)) 투여시 뇌 아밀로이드 플라크 감소가 일어나는지를 조사하였다.
- [0244] (1)2xTg-AD 마우스 모델 준비

- [0245] 2가지 유전자가 돌연변이된 형질 전환 마우스(Doubly mutated transgenic mice) (2xTg-AD, 계통명; B6.Cg-Tg (APP^{swe}, PS1^{dE9}) 85Dbo/J) 및 야생형 (C57BL/6J) 마우스는 Jackson Laboratory (Bar Harbor, Maine, USA)로부터 유래하였다. 이러한 2xTg-AD 마우스는 야생형 마우스와 교차하여 이중 반접합체(double hemizygotes)로 유지되었다. 모든 APP와 PS1 유전자의 유전자형은 Jackson Laboratory의 표준 PCR 조건에 따라 꼬리 DNA(tail DNA)를 이용한 PCR 분석을 통해 확인되었다. 마우스는 동물 사육실에서 플라스틱 케이지 당 4 ~ 6 마리씩 수용되어, 12 시간의 명암 사이클을 번갈아가면서 21±1℃로 유지되었고, 음식과 물을 자유롭게 섭취하였다. 실험 초기에, 2xTg-AD (n = 13, 남성) 및 야생형 (n = 14, 남성) 4개월령으로 27 마리의 마우스를 평가했다. 모든 동물 실험은 실험 동물의 보살핌과 사용을 위한 국립보건원 가이드(the National Institutes of Health guide for the care and use of laboratory animals)에 따라 수행되었다 (NIH Publications No. 8023, 1978 년 개정).
- [0246] (2)마우스 모델에 P101(0117) 처리
- [0247] 정맥(intravenous) 투여 모델 : 응집되지 않은 P101(0117) 100 μmol 를 12 개월령의 2xTg-AD 마우스의 꼬리 정맥 내로 4 주 동안 일주일에 두번씩 정맥 내(i.v.)로 투여하였다. 대조군은 동량의 매체(vehicle) (PBS 중 2.5% DMSO)를 투여받았다. 상기 투여는 1 mL Kovacs-주사기로 수행하였다.
- [0248] 뇌실내 (Intracerebroventricular ; ICV) 투여 모델 : 합성 Aβ 42와 P101(0117)은 무균 생리 식염수 250과 25 pmole (5 μL 50 μM, 5 μL 5 μM)에 각각 용해시켰다. 마우스를 ICV 투여 전에 2% 아베르틴(20 μg/g, IP)으로 마취시켰다. 용해된 Aβ 42와 P101(0117)은 이전에 보고된 프로토콜에 따라 마우스 뇌의 ICV 영역에 투여하였다. 구체적으로, 본 발명자들은 26-게이지의 스테인레스-스틸 바늘을 갖는 해밀턴 주사기를 사용하여 bregma 의 1.0 mm 후방, 시상면의 1.8 mm 외측, 3.6 mm 복부 및 2.4 mm 깊이로 ICV 영역에 Aβ 42를 투여했다.
- [0249] (3)뇌 및 혈장 준비
- [0250] 마우스를 2% 아베르틴(20 mg/g, i.p.)을 사용하여 마취했다. 대정맥으로부터 혈액을 채취하여 프로테아제 저해제 칵테일(Roche Diagnostics, cat# 11836170001)을 이용하여 EDTA 튜브로 옮기고 상기 튜브를 부드럽게 흔들었다. 상기 EDTA 처리된 혈액으로부터 혈장을 얻고 즉시 드라이아이스로 냉동시켜 -80℃냉동고에 저장하였다. 상기 혈액을 수집한 후, 상기 마우스를 0.9% NaCl로 관류시키고 뇌를 절제하였다. 상기 hemibrains은 4℃에서 4% 파라포름알데히드(pH 7.4)에서 밤새 고정시켰다. 동결 보존을 위해, 뇌를 30% 수크로오스에 48 시간 동안 담갔다. 상기 다른 hemibrains을 피질 및 해마 영역으로 해부하고 1X 프로테아제 저해제 칵테일을 포함하는 용해 완충액 (10 mM Tris-HCl, 320 mM 수크로오스에서 5 mM EDTA, pH 7.4)에서 30 분 동안 얼음 상에서 균질화하였다. 상기 샘플은 4℃에서 13500rpm으로 30 분 동안 원심분리하였다. BCA 단백질 분석 키트(ThermoFisher, cat #23225)로 제조업체의 지시에 따라 lysate 농도를 측정하였다. 상기 흡광도는 560 nm에서 판독하였다.
- [0251] (4)면역 조직 화학 염색 및 ThS 염색
- [0252] 저온 유지 장치 (Leica CM1800)를 사용하여 35 μm 두께로 뇌를 절단하고 GFAP (Milipore AB5541)로 염색하였다. Alexa Fluor 568-conjugated 2차 항체(Life technologies)를 형광 검출에 사용하였다. ThS 염색은 에탄올 (50%)에서 500 μM의 농도로 7 분 동안 수행하였다. 그리고 상기 절편을 100, 90 및 70% 에탄올에서 순차적으로 10 초 동안 행구고 PBS에 넣었다. Leica DM2500 형광 현미경을 사용하여 이미지를 얻었다.
- [0253] (5) 결과
- [0254] 본 발명자들은 APP/PS1 (2xTg-AD) 마우스 모델을 사용하였다. 상기 모델은 인간 Aβ를 과잉 생산하여 6 개월령 된 실험쥐의 피질과 해마에서 확실한 아밀로이드 플라크를 보였다. 본 발명자들은 4 주 동안 10 개월령 2xTg-AD 마우스에 P101(0117)을 정맥 내로 8 회 투여했다(도 14a). 마지막 투여 후 3 일째에 2% 아베르틴(avertin)(20 μg/g, i.p.)으로 마취한 후 마우스를 희생시켰다. 본 발명자들은 1mL 주사기로 하대 정맥에서 혈액을 채취했다. 채취된 혈액을 EDTA 튜브로 직접 옮기고 혈장(plasma)을 분리하였다. 수득된 뇌를 4% 파라포름알데히드로 고정시키고, 동결 보존을 위해 30% 수크로오스 용액을 사용하였다.
- [0255] 냉동 뇌를 티오프라빈 S(thioflavin S; ThS)를 이용하여 염색하기위해 30 μm로 잘라 조직절편을 만든 뒤 β 시트가 풍부한 Aβ 플라크(β sheet rich Aβ plaques)를 염색하고, 신경 아교 섬유 산성 단백질(glia fibrillary acidic protein ; GFAP) 항체를 이용하여 신경교 세포(glia cell)를 염색했다(도 13B). 도 14b에 나타난 바와 같이, 대조군 마우스(vehicle(10% DMSO in PBS)이 투여된 마우스)와 비교를 해 보면, 상기 플라크 수 및 총 플라크 면적이 P101(0117) 투여된 2xTg-마우스에서 유의하게 감소하였다(도 14c 및 14d). Aβ 40 과 A

β 42 의 총 농도 또는 상대적 농도는 가족성(familial) 및 산발성(sporadic) 알츠하이머 병의 발병과 관련이 있다고 보고되었다.

[0256] 종합적으로, 이러한 결과들은 P101(0117)의 투여가 2xTg-AD 모델 마우스 뇌에 존재하는 $A\beta$ 42 플라크를 분해하여 이를 $A\beta$ 42 펩타이드로 유도함을 말한다.

[0258] P101(0117)의 $A\beta$ 의해 유도된 세포독성 개선 효과 확인

[0259] 아밀로이드 단백질에 의해 유도된 신경 세포의 손실은 AD의 핵심적인 특징이다. P101(0117)이 신경 세포 사멸에 영향을 주는지 조사하기 위해 두 가지 세포(BV2 및 HT22 세포)를 이용하여 세포 생존능 분석(MTT 분석)을 수행하였다. 또한, 세포 독성에서 P101(0117)의 신호 메커니즘을 발견하기 위해, 본 발명자들은 상기의 배양(cultures)을 이용하는 웨스턴 블롯 분석에 의해 세포에서 방출된 세포사멸 시그널링(released apoptotic signaling molecules)를 분석하였다.

[0260] (1) 세포 배양(BV2세포, HT22세포)

[0261] BV2 및 HT22 세포는 한국 세포주 은행 (서울대학교, 대한민국)으로부터 획득하였다. 세포를 10% (v/v) 소태아혈청(FBS, Gibco), 100 units/ml 페니실린, 50 μ g/ml 스트렙토마이신으로 보충된 Dulbecco's 65 modified Eagle's 배지(DMEM, Invitrogen)에서 배양하였다. 주요 정상교세포는 이전에 기술된 바와 같이 신생 C57BL/6 마우스(P0-3)로부터 준비하였다. 상기 대뇌 피질과 해마를 절개하고 분쇄에 의해 단일 세포 현탁액으로 분쇄하고 0.1 mg/ml 폴리-D-라이신 (PDL) 사전-코팅된 10 cm 접시로 도금하였다. 이들 세포를 25 mM 글루코오스, 10% (vol/vol) 열-활성화된 말 혈청, 10% (v/v) 열-불활성화된 소태아혈청, 2 mM 글루타민 및 1000 units/ml 페니실린-스트렙토마이신으로 보충된 DMEM 배지에서 유지시켰다. 배양 3 일째, 세포를 PBS로 세척한 후 배지를 교체하였다. 다음날, 새로운 배지에서 실험을 하기에 적합한 밀도로 세포를 옮겼다. 모든 세포 배양은 5 % CO₂ 배양기에서 37°C로 유지하였다.

[0262] (2) 세포 생존능 분석(MTT 분석) 방법

[0263] 상기 배양된 BV2 및 HT22 세포는 3-(4,5-디메틸-2-티아조일)-2,5-디페닐테트라조리움 브로마이드 (3-(4,5-dimethyl-2-thiazolyl)-2,5-diphenyltetrazolium bromide; MTT) 분석을 이용하여 세포 생존력을 분석하였다.

[0264] 실험은 기아 배지(starvation medium), 2 % FBS가 보충된 DMEM으로 수행하였다.

[0265] BV2, HT22 세포 (5×10^3 cells/well) 및 주요 정상세포 (2×10^4 cells/well)를 96-웰 플레이트에 배양하였다. 각 웰에 MTT 시약 (15 μ M)을 첨가한 후 $A\beta$ 40, $A\beta$ 42, P101(0117)을 처리하였다. 4 시간 동안 인큐베이션 한 후, 100 μ l의 가용화 용액을 첨가하고 실온에서 16 시간 동안 방치하였다. 상기 포르마잔 생성물은 570 nm 파장에서 EnSpire®Multimode Plate Reader를 사용하여 측정하였다. 또한, 신경 세포 사멸은 Live/Dead® Viability/Cytotoxicity kit (Molecular Probes)를 이용하여 제조업체의 지시에 따라 시각화하였다. 그 결과에도 15a내지 도 15d에 나타낸 바와 같다.

[0266] (3) 웨스턴 블롯 분석(Western blot Assay) 방법

[0267] 웨스턴 블롯(Western blot) 분석을 위해 상기 준비된 세포의 샘플을 SDS-PAGE로 분리하고 PVDF 막으로 옮겼다. 상기 멤브레인은 1차 항체를 이용하여 4°C에서 밤새 처리하였고, Horseradish Peroxidase(HRP)가 결합된 (conjugated) 2 차 항체를 이용하여 검출하였다. 상기 blot의 전개는 제조업체의 지시에 따라 Clarity Western ECL substrate(Bio-Rad)로 수행하였다.

[0268] (4) 결과

[0269] 상기 MTT 분석은 $A\beta$ 40(도 15a) 또는 $A\beta$ 42(도 15b) 단독으로 처리 후, 그리고 해마 신경 세포주 HT22, 미세아교세포주(microglial cell line) BV2, 그리고 주요 정상 세포에서 P101(0117)과 조합하여 세포 증식을 정량화하기 위해 수행하였다. 도 15a와 15b에 나타낸 바와 같이, $A\beta$ 40으로 유도된 신경 세포 사멸은 3 개의 모든 세포주에서 P101(0117)과 함께 처리한 후 유의하게 감소하였다.

[0270] 상기 결과에 대해 추가적으로 생존 실험, 세포 사멸을 시각적으로 검출하기 위한 LIVE/DEAD® Viability/Cytotoxicity Assay에 의해 확인하였다. 아무것도 처리되지 않은 세포가 최소한의 내인성 세포 사멸 정도만을 나타낸 반면, $A\beta$ 40이 처리된 세포는 거의 50% 세포 사멸을 보였다. 신경 세포 사멸은 세포가 $A\beta$ 40과

함께 P101(0117)로 처리되었을 때 크게 회복되는 것을 확인하였다(도 15c). 따라서, P101(0117)이 A β 40 및 A β 42에 의해 유도된 신경 세포 사멸을 in vitro(시험관내)에서 차단할 수 있음을 확인하였다.

[0271] 도 15d에서 보는 바와 같이, 데이터에서 상이한 단백질이 확인되었다(Bcl-2 단백질 군인 Bax는 세포사멸을 유도하는 단백질(pro-apoptotic protein)임; 절단된 카스파제-3(Cleaved caspase-3)는 세포 사멸(apoptosis)에서 기본적인 것임; 카스파제에 의해 단백질 분해된 후 DNA 손상 및 기타 유전독성 응력 인자에 대한 반응으로 세포 사멸(apoptotic cell death)을 유도하는 폴리(ADP-리보스) 중합 효소-1(Poly (ADP-ribose) polymerase-1, PARP1); 사이토크롬-C는 미토콘드리아에서 세포질로 세포 사멸하는 동안 방출됨; 그리고, 조직 변성에서 뉴런을 보호하고 염증을 제한하기 위해 정상 세포에서 발현되는 신경 아교 섬유 산성 단백질(glial fibrillary acidic protein, GFAP). A β 40 및 P101(0117)로 처리된 BV2 세포 추출물의 웨스턴 블롯 분석은 A β 40 단독 처리에 비해 Bax, 절단된 카스파제-3(cleaved caspase-3), 및 절단된-PARP-1(cleaved PARP-1)의 수준 감소를 나타내었다. 주요 정상 세포의 분석은 A β 40과 P101(0117)의 조합 처리가 Bax, 절단된 카스파제-3, 절단된 PARP-1, 및 시토크롬-c의 수준 감소를 나타냈다. P101(0117)을 포함하는 A β 40의 조합은 GFAP의 증가를 나타냈다.

[0272] P101(0117) 처리된 세포가 A β 유도된 세포 사멸 단백질을 감소시켰으며 세포사멸(apoptotic cell death)이 감소시키는 것임을 확인하였다.

[0274] P101(0117)의 공간적 작업 기억 손상(Spatial working memory impairment) 억제 효과 확인

[0275] 본 발명자들은 P101(0117)이 A β 42 응집체에 직접 결합하고 신경 세포주 및 주요 정상 세포에서 A β 유도 세포 독성을 낮춘다는 것을 앞서 확인하였다.

[0276] P101(0117)이 in vivo(생체 내)에서 A β 유도 기억 손상을 개선시킬 수 있는지를 측정하기 위해, 본 발명자들은 A β 42가 투여된 AD 마우스 모델을 이용한 행동 테스트를 수행하기 전에 P101(0117)과 A β 42 사이의 적절한 비율을 확인하였다. 상기 행동 테스트는 후술한다.

[0277] 또한, 행동 테스트 후에 마우스를 희생시키고 뇌를 해부하였다. 본 발명자들은 웨스턴 블롯으로 해마 영역의 세포 사멸 시그널링 인자의 수준 변화를 확인하였고, 그 결과는 도 16g에 나타내었고, 상기 뇌 해부 방법 및 웨스턴 블롯 분석은 각각 앞에서 설명한 실험예들에 나타난 방법과 같다.

[0278] (1) 행동 테스트 방법

[0279] Y-미로 테스트는 마우스 모델에 ICV 투여 4 일 후 수행하였다. Y-미로 장치는 A, B 및 C로 표시된 3 개의 통로 형태의 팔(arms)을 갖는 플라스틱 검정색 미로이다. 각 팔의 길이는 40 cm, 높이는 12 cm, 상단에는 10 cm, 하단에는 3cm 폭이었다. 상기 팔은 가운데로 수렴하여 가장 긴 축에서 4 cm의 정삼각형을 만들었다. 마우스는 한 팔 끝 부분에 배치시키고 상기 미로를 통해 12 분 동안 자유롭게 움직일 수 있도록 했다. 상기 일련의 팔 움직임은 수동으로 기록하였다. 상기 마우스의 모든 4 개의 팔다리가 팔 중 하나 내에 있을 때 진입(entry)으로 간주하였다. 한 마우스가 연속적으로 3 개의 상이한 팔에 들어왔을 때, 교대(alternation)가 카운트하였다. 상기 충동적 교대 행동(impulsive alternation behavior)은 하기 방정식을 기반으로 계산하였다.

[0280] 각각의 시험 전에, 상기 미로 내부는 향기 신호(scent cues)를 제거하기 위해 70% 에탄올 용액으로 세정하였다.

[0281] 새로운 대상 인지 테스트를 수행하기 위해 습관화 단계(habituation phase)에서, 마우스는 10 분 동안 새로운 대상 인식 테스트 상자를 탐색할 수 있었다. 친화 단계(familiarization phase)에서, 마우스는 상자에 놓여지고 벽에서 5cm 떨어진 검정색 플라스틱 피라미드 모양의 물체인 두 개의 동일한 물체와 10 분 동안 상호 작용 하였다. 테스트 단계에서, 대상 중 하나가 세라믹 양 모양의 인형(ceramic sheep-shaped doll)인 새로운 대상으로 대체되고 마우스는 10 분 동안 테스트하였다. 모든 세션은 EthoVision 소프트웨어로 기록하였고, 각각의 대상과 상호작용하는 데 소요된 시간은 수동으로 분석을 진행하였다.

[0282] (2) 결과

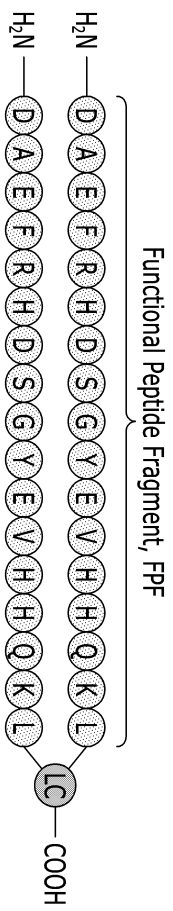
[0283] 본 발명자들은 8 주령의 C57Bl/6 마우스(수컷, n = Group당 7 ~ 11)에 뇌실내(ICV) 투여에 의한 AD 유사 행동을 유도하기 위해 하나의 vehicle과 4개의 A β 42응집체 샘플을 제조하였다(도 16a). 그 중 P101(0117)의 A β 42 응집체 독성 억제 및 치료 효과를 각각 확인하기 위해 사전에 미리 두 물질을 섞어서 인큐베이션하거나(Group D)과 ICV 투여 직전 (Group E)에 섞어서 투여하였다. 본 발명자들은 ICV 투여 후 4 일째에 Y-미로 테스트와 새

로운 대상 인식 테스트를 시행하였다(도 16b).

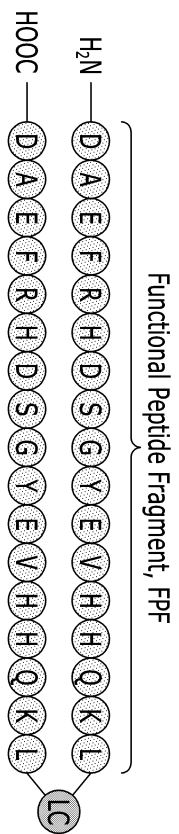
- [0284] Y-미로는 공간적 작업 기억을 측정하는 테스트로, Y-미로에서 실험대상 마우스는 자유롭게 움직일 수 있으며, 진입의 순서(sequences of entries)를 기록하고 분석하였다. 도 16c에 나타난 바와 같이, Group D과 Group E의 투여 결과, Group A와 거의 동일한 수준으로 교대 비율이 교대 비율이 증가했으며, 이는 P101(0117)의 응집 전 혹은 응집 후 투여 경우 모두에서 공간인지기능이 정상수준으로 개선됨을 말한다. 전체 진입(entries)의 차이는 미미함을 관찰함으로써 실험의 통제가 잘 수행되었을 확인하였다.
- [0285] 도 16d에 나타난 바와 같이, NOR 테스트는 인지 인식 기억(cognitive recognition memory)을 평가하기 위해 수행하였다. 모든 마우스군은 친화 트레일에서 두 개의 대상을 거의 동일한 시간 동안 탐구했다. 새로운 대상이 제시되었을 때, Group B 마우스는 새롭고 친숙한 대상을 구별하지 못했다. 그러나 Aβ42 응집체에 P101(0117)을 함께 투여한 Group D와 Group E는 Group B에 비교하여 신규한 대상을 탐구하는데 소비된 시간이 현저하게 증가한 것을 나타내었다.
- [0286] 도 16e에 나타난 결과와 같이, 행동 테스트에서 개선된 기억 손상을 나타내는 Group D군 및 Group E군에서, Bax 및 절단된 카스파제-3의 단백질 수준의 감소가 나타났다. 시토크롬-c 발현의 변화는 관찰되지 않았다. 따라서, 결과적으로 P101(0117)이 Aβ42 투여로 유도된 AD 마우스 모델에서 인지기능 손상을 회복시킨다는 것을 시사한다.
- [0288] 안정성 실험(KR1198047)
- [0289] 단백질 가수분해 저하에 대한 방사성 표지된 펩타이드의 저항성을 평가하고, 그것의 생체내 안정성을 예측하기 위해 인간 혈청에서 안정성 평가가 수행되었다. 방사성표지된 펩타이드 10 μCi를 인간 혈청에 넣고 37 °C에서 72 시간 동안 배양하였다.
- [0290] 방사성 표지된 펩타이드의 안정성을 측정하기 위해 적당한 시간 간격에서 부분 표본 샘플을 얻었다. RP-HPLC 분석을 통해 오로지 원하는 방사성 표지된 펩타이드만이 관측된 것을 확인할 수 있었다. 또한, 72시간 이상의 기간동안 98% 이상의 높은 안정성을 유지한 것을 알 수 있다. 이러한 인간 혈청에서의 안정성 실험 결과는 제조된 펩타이드가 가수분해 및 신진대사 저항에 대해 높은 안정성이 있음을 나타낸다. 상기에서는 실험예에 대하여 설명하였지만, 권리범위는 이에 의해 한정되는 것이 아니다. 구현되는 형태는 발명의 상세한 설명 및 첨부한 도면의 범위 안에서 여러 가지로 변형하여 실시하는 것이 가능하고 이 또한 권리 범위에 속하는 것은 당연하다.

도면

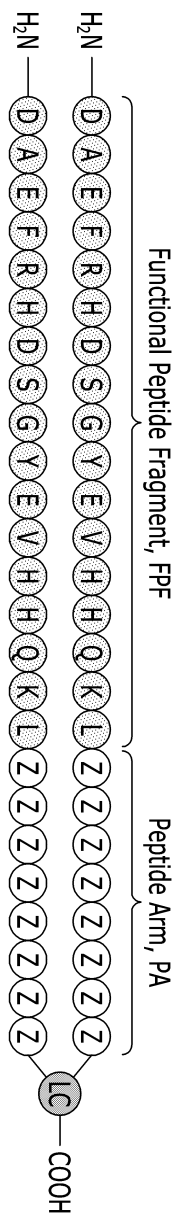
도면1



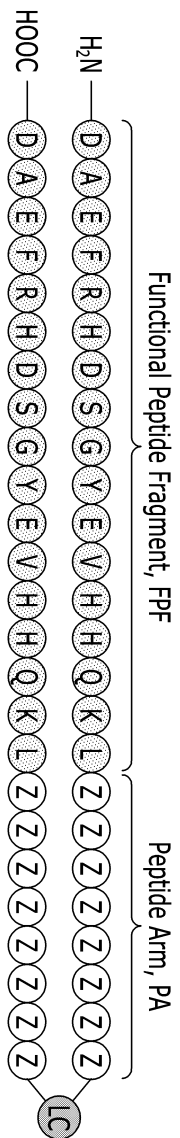
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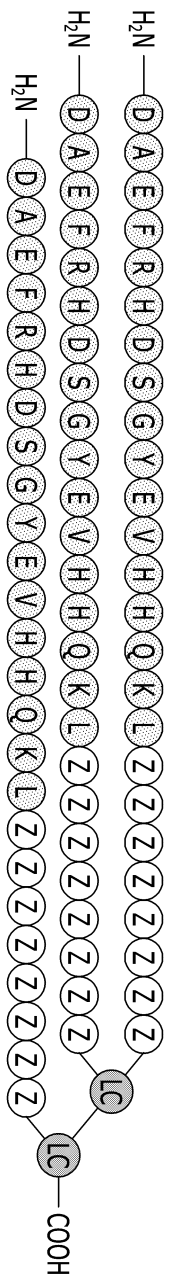
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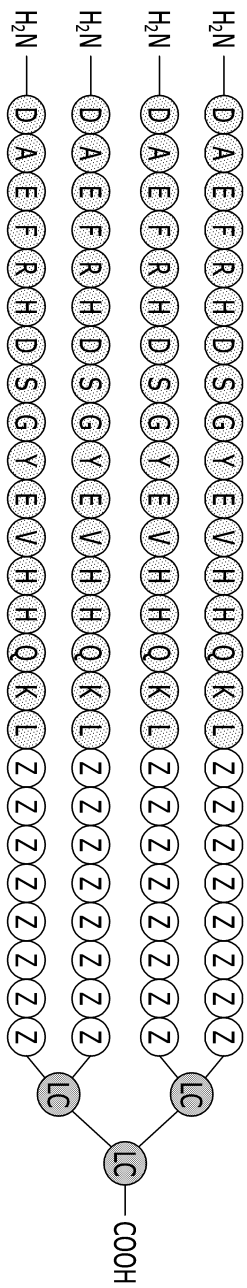
도면4



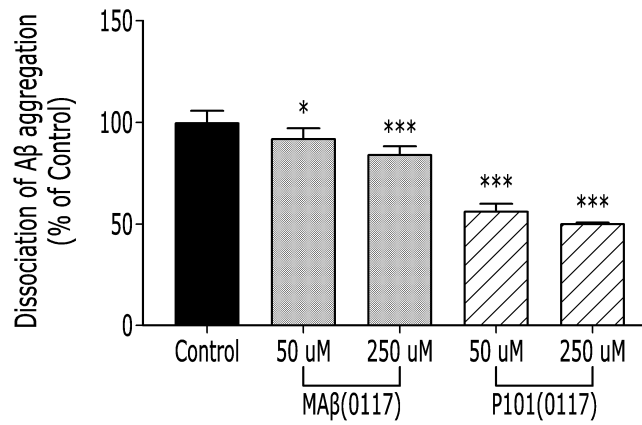
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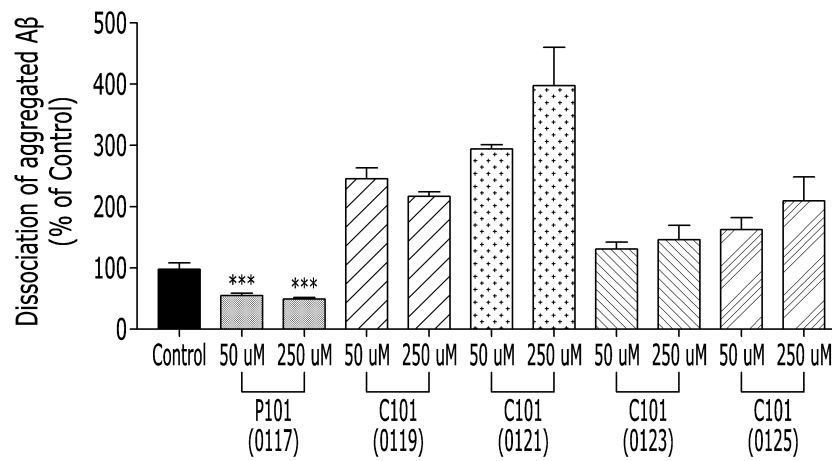
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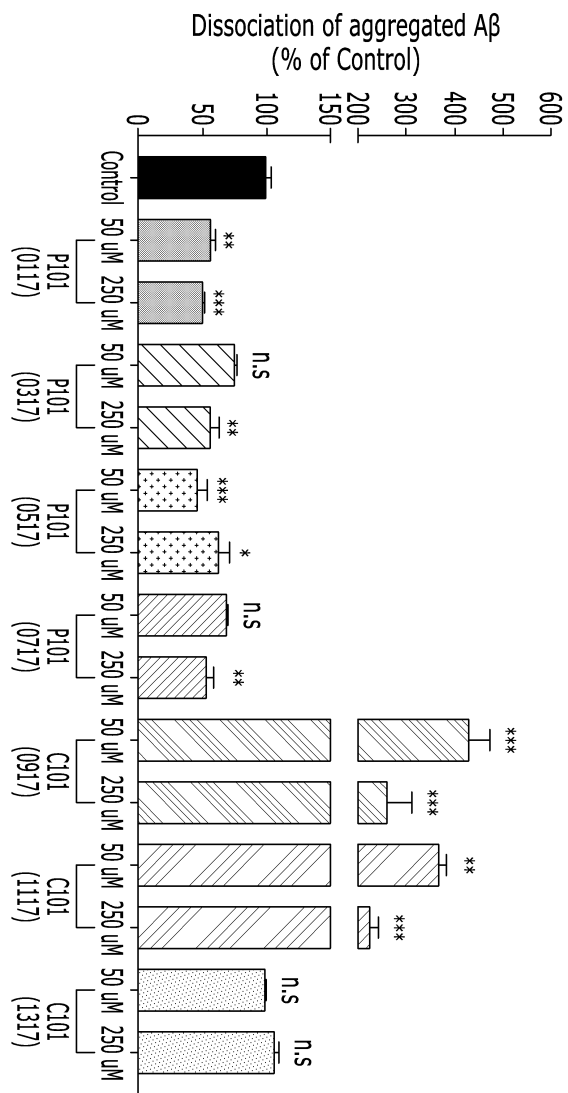
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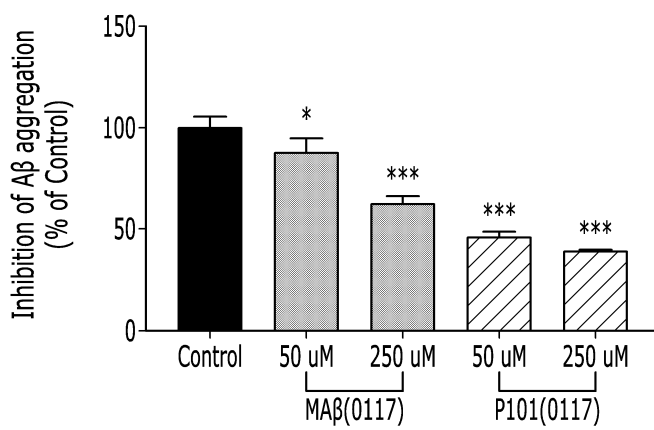
도면8



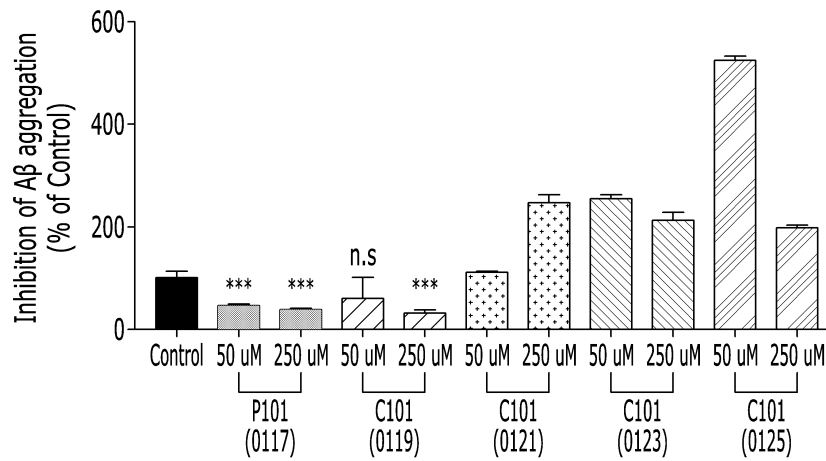
도면9



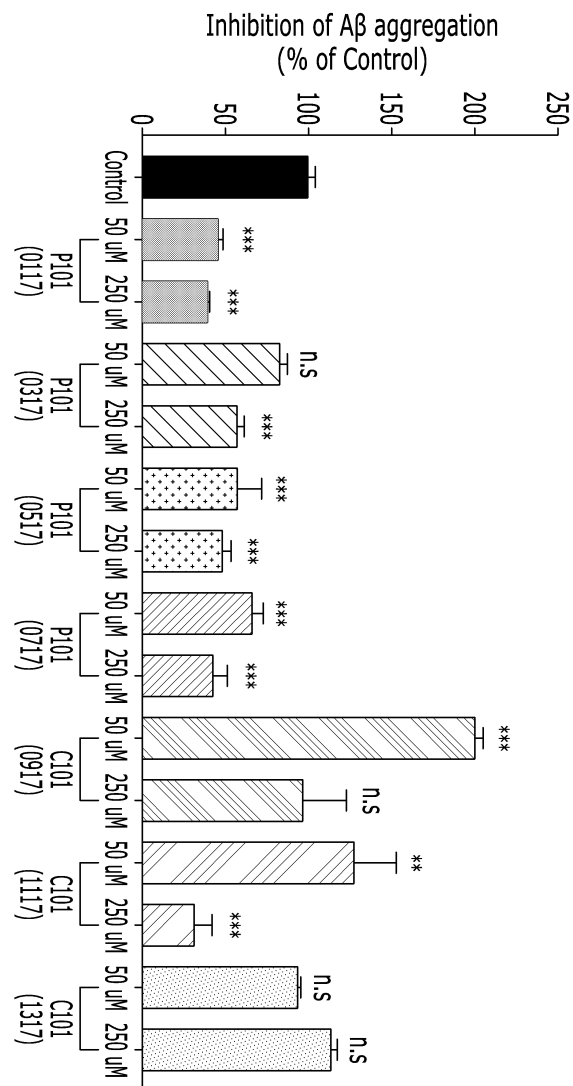
도면10



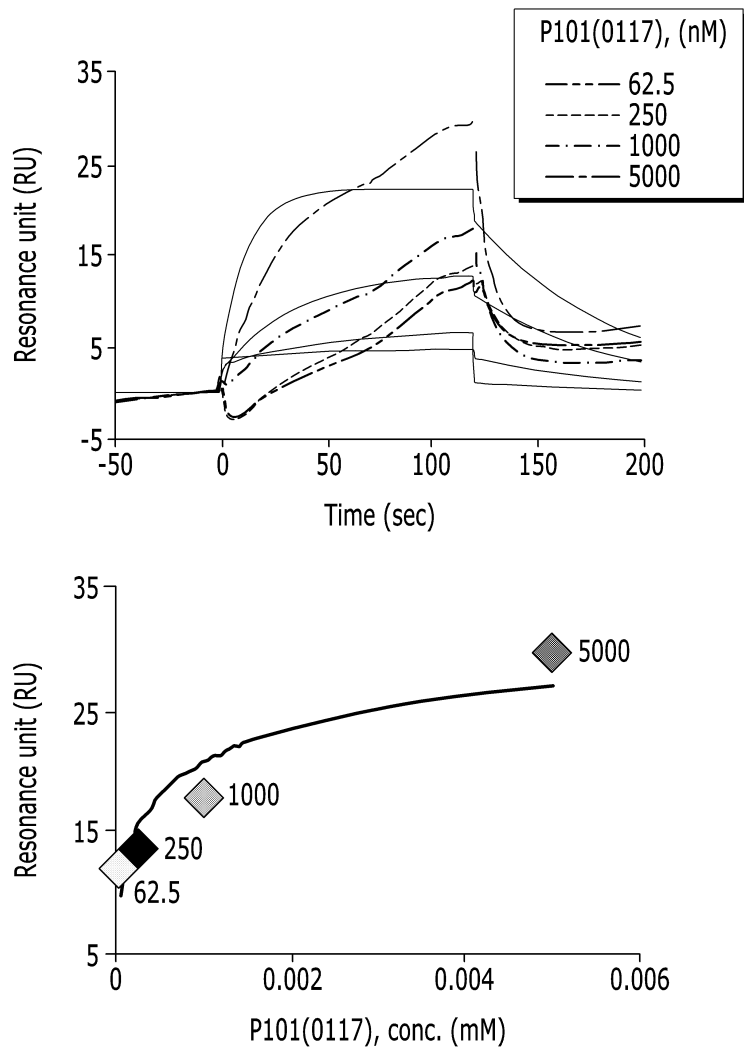
도면11



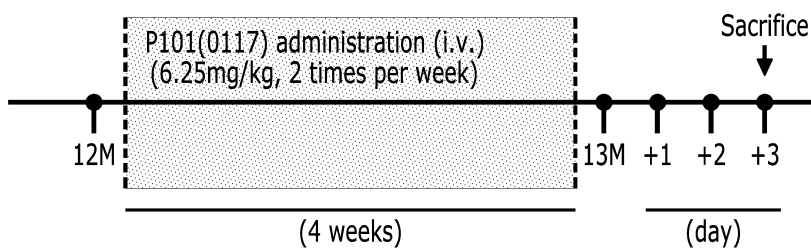
도면12



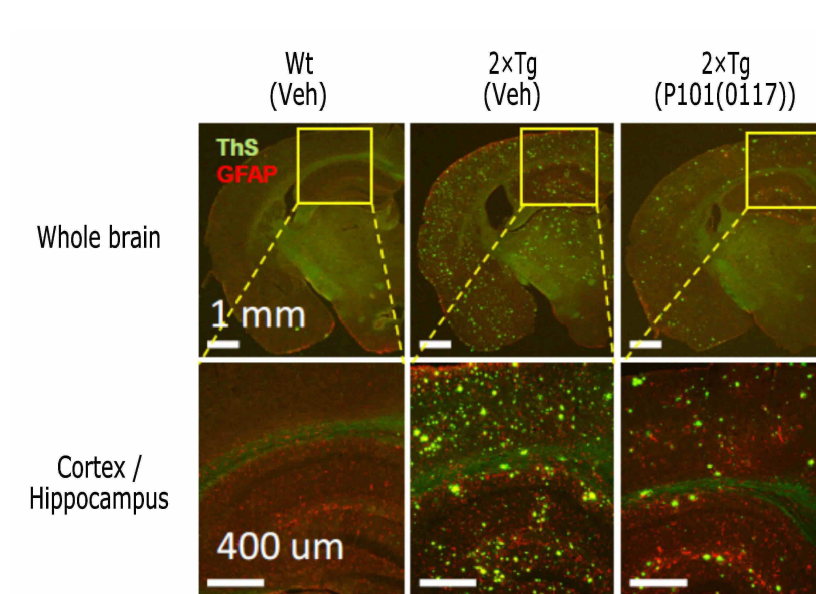
도면13



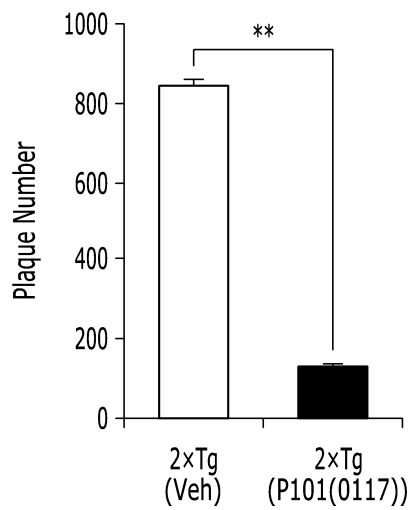
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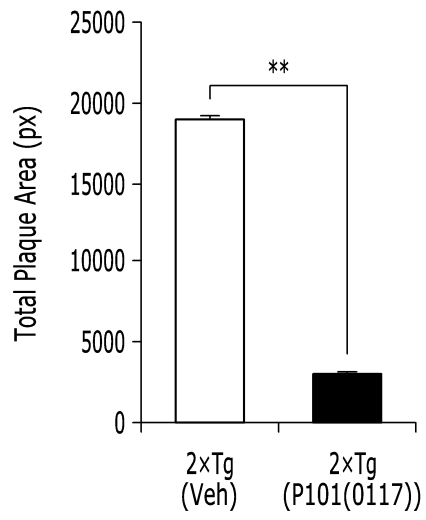
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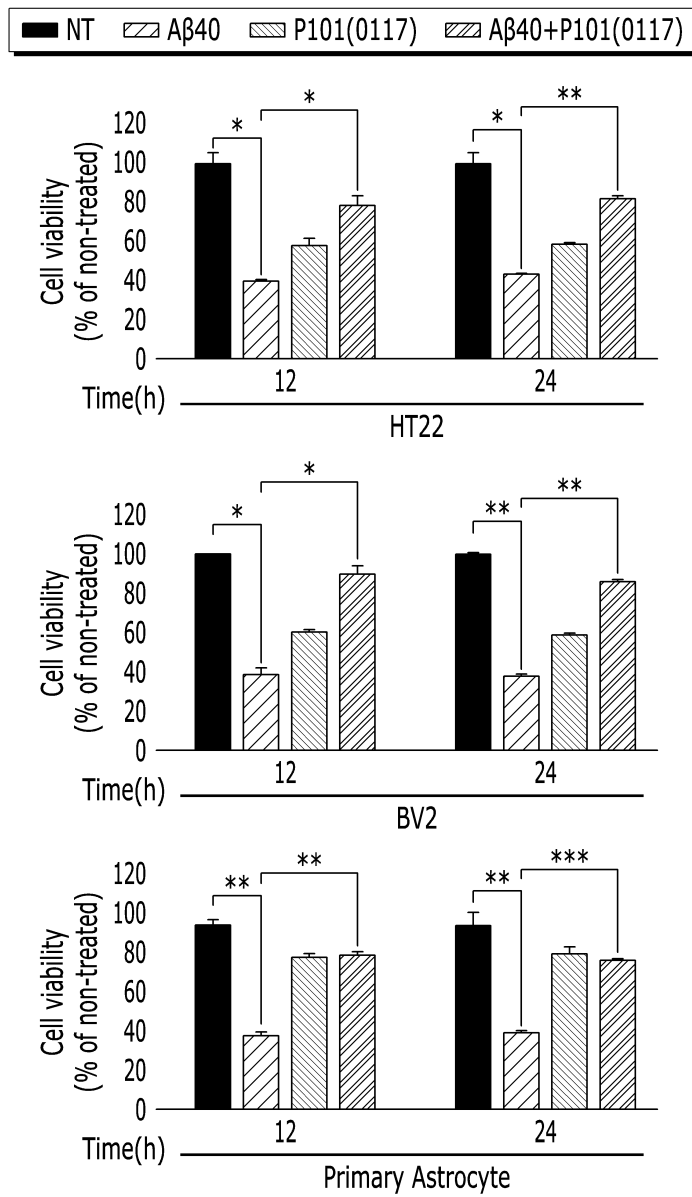
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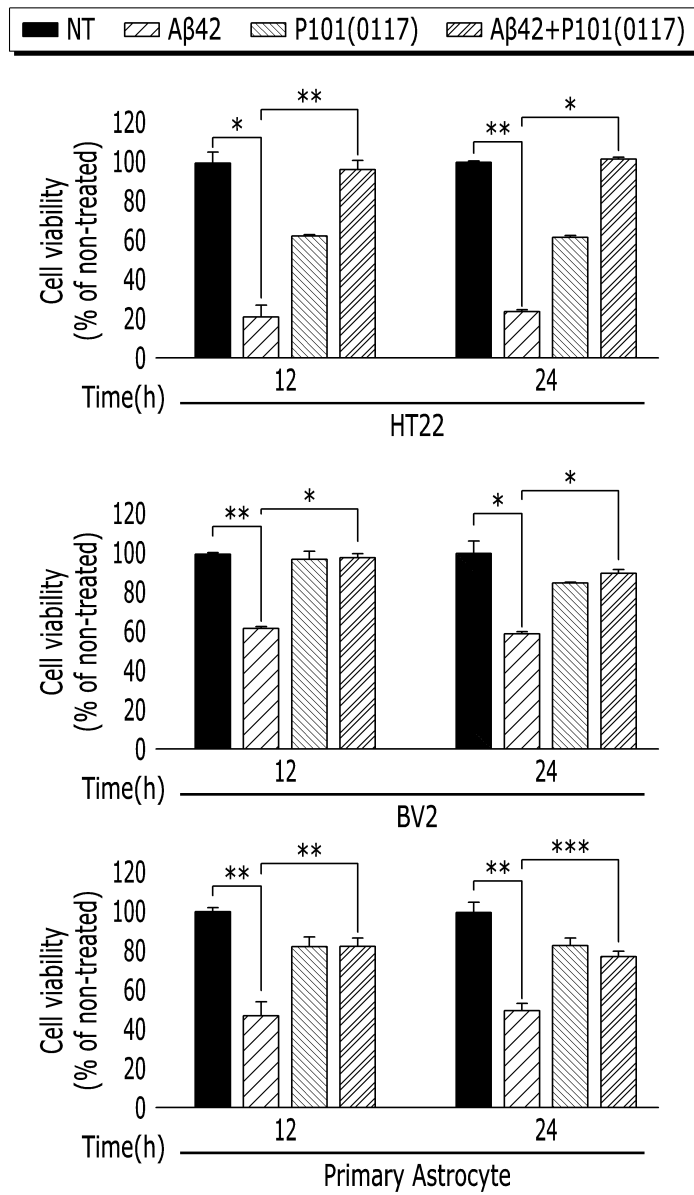
도면14d



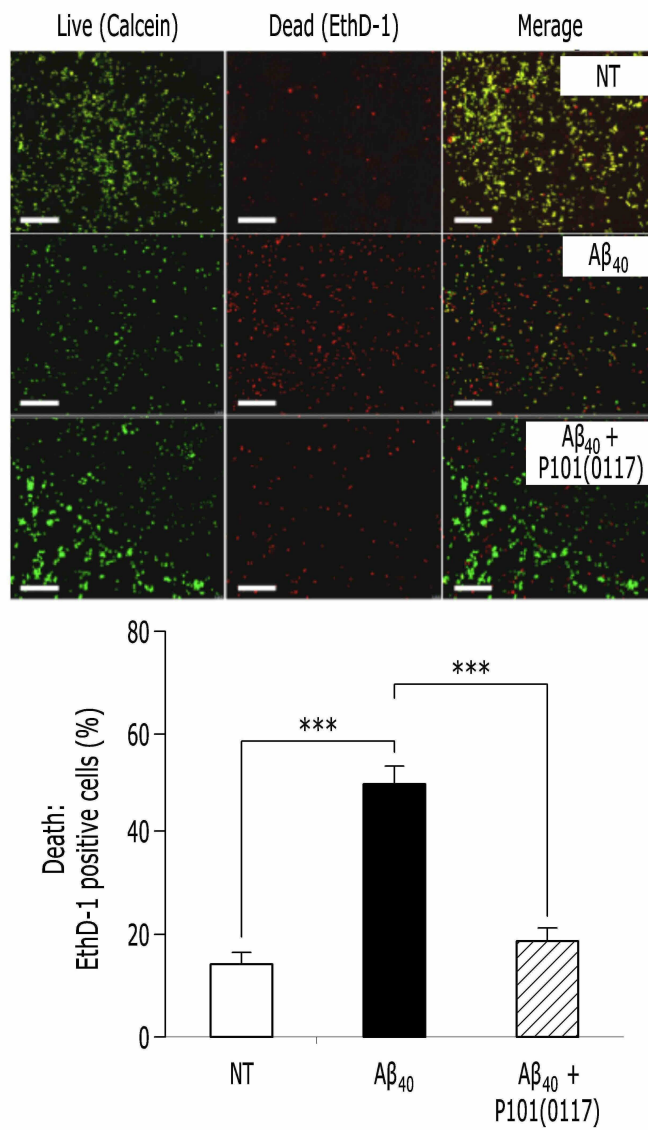
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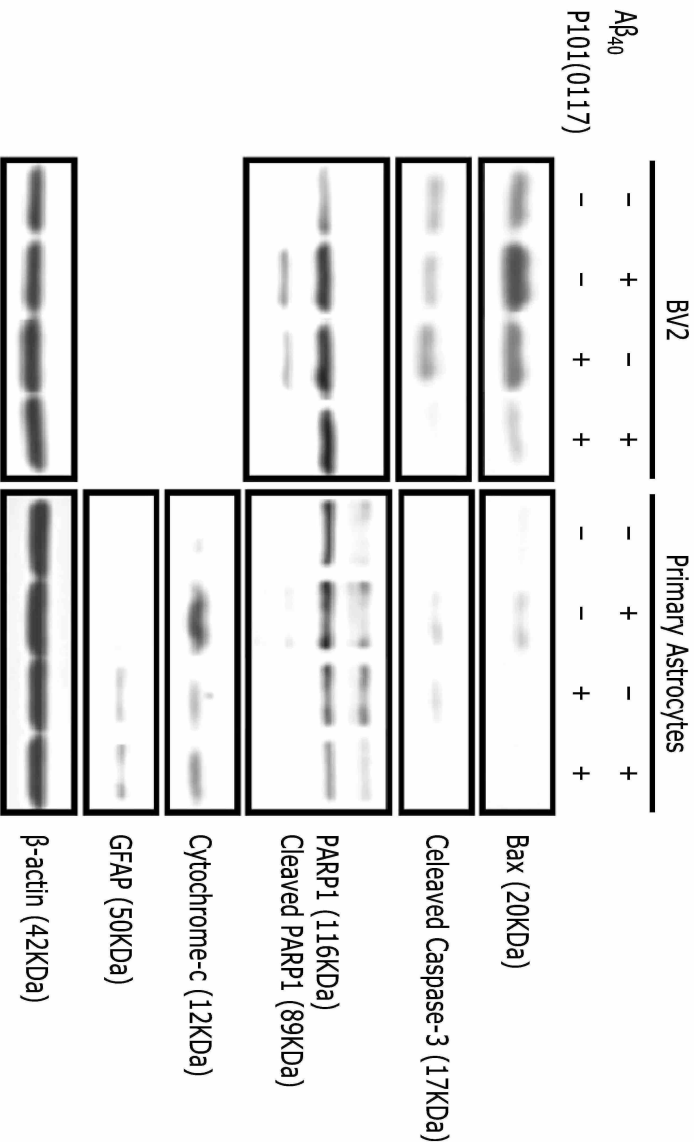
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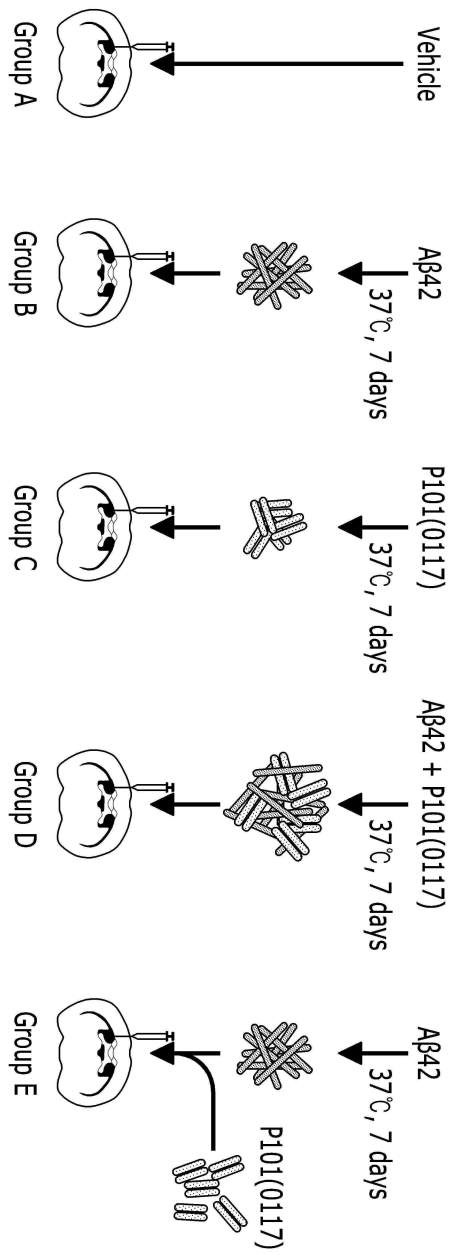
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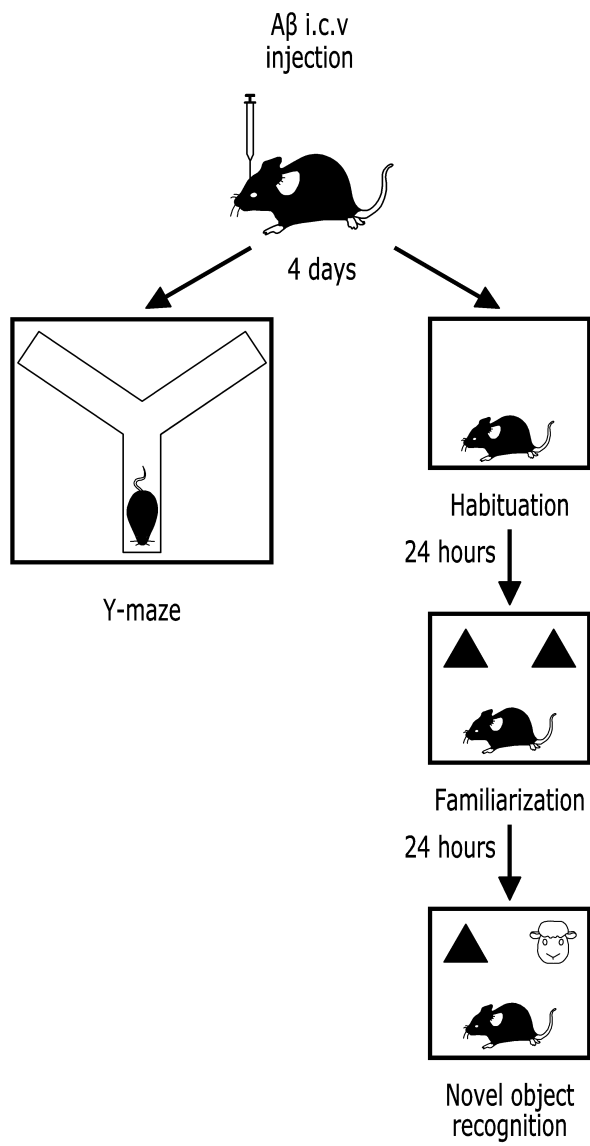
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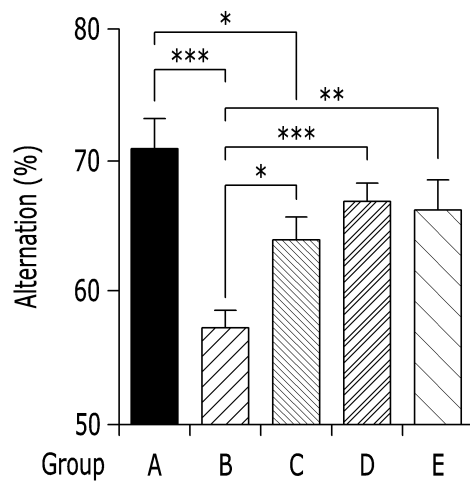
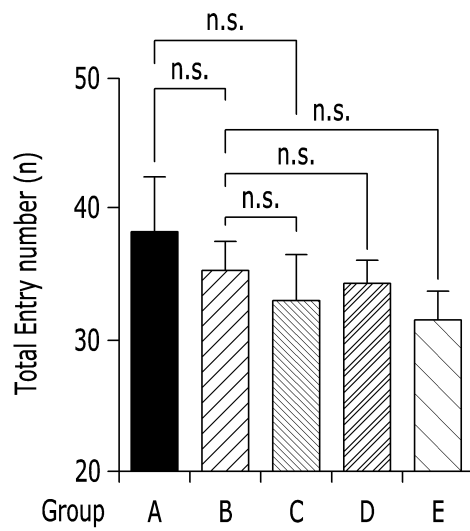
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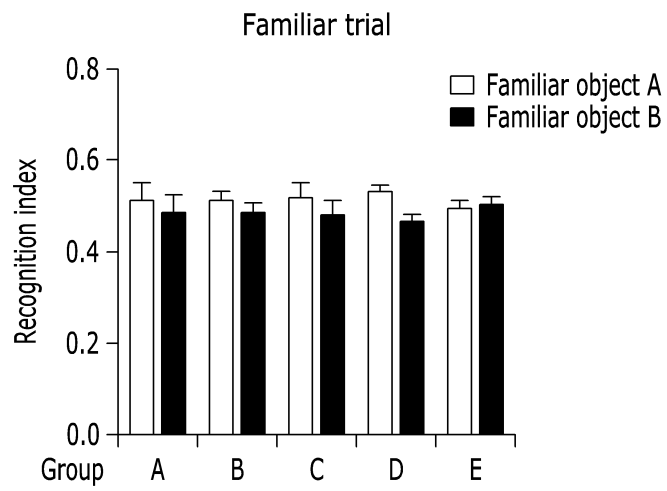
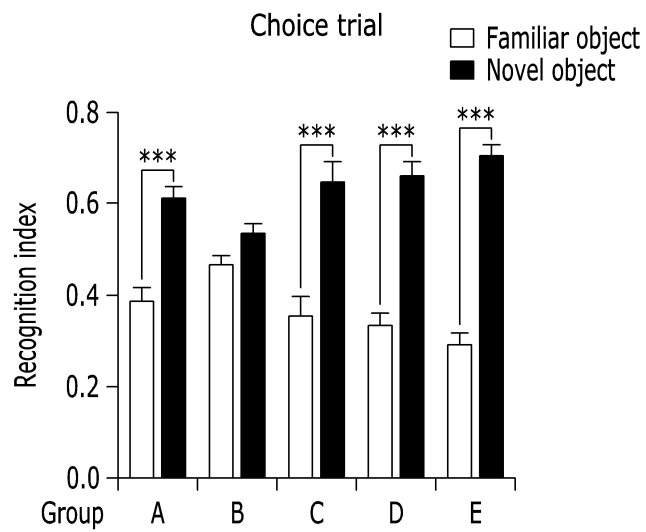
도면16b



도면16c



도면16d



도면16e

