

___I32885W0 - Sequence Listing as originally filed - eolf-seq1
SEQUENCE LISTING

<110> immatics biotechnologies GmbH
<120> Novel peptides, combination of peptides and scaffolds for use in immunotherapeutic treatment of various cancers
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<151> 2015-08-28
<150> US 62/211,276
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Ile Phe Gly Ile Phe Pro Asn Gln Phe
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Ser Tyr Gly Thr Val Ser Gln Ile
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Ala Tyr Ile Ser Gly Leu Asp Val Phe
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Val Tyr Gly Val Pro Thr Pro His Phe
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Ile Tyr Lys Trp Ile Thr Asp Asn Phe
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Tyr Tyr Met Glu Leu Thr Lys Leu Leu Leu
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Asp Tyr Ile Pro Ala Ser Gly Phe Ala Leu Phe
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Arg Tyr Leu Thr Ile Ser Asn Leu Gln Phe
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Arg Tyr Gly Phe Tyr Tyr Val Glu Phe
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Arg Tyr Leu Glu Ala Ala Leu Arg Leu
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Asn Tyr Ile Thr Gly Lys Gly Asp Val Phe
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Gln Tyr Pro Phe His Val Pro Leu Leu
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Val Phe Ile Phe Lys Gly Asn Glu Phe
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Leu Tyr Ser Pro Val Pro Phe Thr Leu
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Phe Tyr Ile Asn Gly Gln Tyr Gln Phe
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Val Tyr Phe Lys Ala Gly Leu Asp Val Phe
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Val Tyr Pro Pro Tyr Leu Asn Tyr Leu
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Ala Tyr Ala Gln Leu Gly Tyr Leu Leu Phe
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Gln Tyr Leu Val His Val Asn Asp Leu
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Val Phe Thr Thr Ser Ser Asn Ile Phe
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Ala Tyr Ala Ala Asn Val His Tyr Leu
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Gly Tyr Lys Thr Phe Phe Asn Glu Phe
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Ala Tyr Phe Lys Gln Ser Ser Val Phe
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Val Tyr Gln Ser Leu Ser Asn Ser Leu
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Ala Tyr Ile Lys Gly Gly Trp Ile Leu
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Ile Phe Thr Asp Ile Phe His Tyr Leu
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Asp Tyr Val Gly Phe Thr Leu Lys Ile
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Ser Tyr Leu Asn His Leu Asn Asn Leu
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Val Phe Ile His His Leu Pro Gln Phe
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Gly Tyr Asn Pro Asn Arg Val Phe Phe
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Glu Tyr Leu Ser Thr Cys Ser Lys Leu
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Thr Tyr Leu Glu Lys Ile Asp Gly Phe

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Phe Tyr Val Asn Val Lys Glu Gln Phe
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Ile Tyr Ile Ser Asn Ser Ile Tyr Phe
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Leu Tyr Ser Glu Leu Asn Lys Trp Ser Phe
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Ser Tyr Leu Lys Ala Val Phe Asn Leu
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His Tyr Ser Thr Leu Val His Met Phe
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Thr Phe Ile Thr Gln Ser Pro Leu Leu
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Pro Tyr Phe Phe Ala Asn Gln Glu Phe
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Thr Tyr Thr Asn Thr Leu Glu Arg Leu
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Met Tyr Leu Lys Leu Val Gln Leu Phe
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Ile Tyr Gln Phe Val Ala Asp Ser Phe
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Thr Tyr Gly Met Val Met Val Thr Phe
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Ala Phe Ala Asp Val Ser Val Lys Phe
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Tyr Tyr Leu Ser Asp Ser Pro Leu Leu
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Ser Tyr Leu Pro Ala Ile Trp Leu Leu
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Val Tyr Lys Asp Ser Ile Tyr Tyr Ile
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Val Tyr Leu Pro Lys Ile Pro Ser Trp
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Lys Tyr Val Gly Gln Leu Ala Val Leu
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Ser Tyr Leu Glu Lys Val Arg Gln Leu
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Ser Tyr Val Lys Val Leu His His Leu
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Val Tyr Gly Glu Pro Arg Glu Leu Leu
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Ser Tyr Leu Glu Leu Ala Asn Thr Leu
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Val His Phe Glu Asp Thr Gly Lys Thr Leu Leu Phe
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Ser Phe Thr Lys Thr Ser Pro Asn Phe
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Ala Phe Pro Thr Phe Ser Val Gln Leu
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Arg Tyr His Pro Thr Thr Cys Thr Ile
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Lys Tyr Pro Asp Ile Ala Ser Pro Thr Phe
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Lys Tyr Leu Glu Ser Ser Ala Thr Phe
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Val Tyr Gln Lys Ile Ile Leu Lys Phe
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Val Phe Gly Lys Ser Ala Tyr Leu Phe
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Gly Tyr Ile Lys Leu Ile Asn Phe Ile
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Val Tyr Ser Ser Gln Phe Glu Thr Ile
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Arg Tyr Ile Leu Glu Asn His Asp Phe
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Ser Phe Leu Asn Ile Glu Lys Thr Glu Ile Leu Phe
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Ile Phe Ile Thr Lys Ala Leu Gln Ile
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Gln Tyr Pro Tyr Leu Gln Ala Phe Phe
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Ile Tyr Gly Glu Lys Leu Gln Phe Ile Phe
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Lys Tyr Gly Thr Leu Asp Val Thr Phe
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Gln Tyr Leu Asp Val Leu His Ala Leu

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Val Trp Leu Pro Ala Ser Val Leu Phe
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Asn Tyr Leu Val Asp Pro Val Thr Ile
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Val Tyr Val Gly Asp Ala Leu Leu His Ala Ile
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Ser Tyr Gly Thr Ile Leu Ser His Ile
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Ile Tyr Asn Pro Asn Leu Leu Thr Ala Ser Lys Phe
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Val Tyr Pro Asp Thr Val Ala Leu Thr Phe
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Tyr Tyr Leu Gly Ser Gly Arg Glu Thr Phe
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Arg Phe Pro Val Gln Gly Thr Val Thr Phe
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Thr Tyr Ile Asp Thr Arg Thr Val Phe
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Ala Tyr Lys Ser Glu Val Val Tyr Phe
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Lys Tyr Gln Tyr Val Leu Asn Glu Phe
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Leu Tyr Leu Pro Val His Tyr Gly Phe
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Leu Tyr Ser Val Ile Lys Glu Asp Phe
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Glu Tyr Asn Glu Val Ala Asn Leu Phe
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Asn Tyr Glu Asn Lys Gln Tyr Leu Phe
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Val Tyr Pro Ala Glu Gln Pro Gln Ile
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Thr Phe Asp Gly His Gly Val Phe Phe
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Lys Tyr Tyr Arg Gln Thr Leu Leu Phe
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Ile Tyr Ala Pro Thr Leu Leu Val Phe
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Glu Tyr Leu Gln Asn Leu Asn His Ile
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Ser Tyr Thr Ser Val Leu Ser Arg Leu
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Val Tyr Phe Glu Gly Ser Asp Phe Lys Phe
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Val Phe Asp Thr Ser Ile Ala Gln Leu Phe
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Thr Tyr Ser Asn Ser Ala Phe Gln Tyr Phe
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Ser Leu Trp Phe Lys Pro Glu Glu Leu
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Ala Leu Val Ser Gly Gly Val Ala Gln Ala
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Ile Leu Ser Val Val Asn Ser Gln Leu
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Ala Ile Phe Asp Phe Cys Pro Ser Val
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Arg Leu Leu Pro Lys Val Gln Glu Val
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Ser Ile Gly Asp Ile Phe Leu Lys Tyr
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Ser Val Asp Ser Ala Pro Ala Ala Val
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Phe Leu Trp Pro Lys Glu Val Glu Leu
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Ala Ile Trp Lys Glu Leu Ile Ser Leu
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Gly Thr Phe Leu Glu Gly Val Ala Lys
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Gly Arg Ala Asp Ala Leu Arg Val Leu
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Val Leu Leu Ala Ala Gly Pro Ser Ala Ala
1 5 10

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Gly Leu Met Asp Gly Ser Pro His Phe Leu
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Lys Val Leu Gly Lys Ile Glu Lys Val
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Val Leu Gly Pro Gly Pro Pro Pro Leu
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Ser Val Ala Lys Thr Ile Leu Lys Arg
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Ser Tyr Leu Thr Gln His Gln Arg Ile
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Asn Tyr Ala Phe Leu His Arg Thr Leu
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Asn Tyr Leu Gly Gly Thr Ser Thr Ile
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Glu Tyr Asn Ser Asp Leu His Gln Phe

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Ile Tyr Val Ile Pro Gln Pro His Phe
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Ile Tyr Leu Glu His Thr Glu Ser Ile
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Gln Tyr Ser Ile Ile Ser Asn Val Phe
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Gln Tyr Gly Gly Asp Leu Thr Asn Thr Phe
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Thr Tyr Gly Lys Ile Asp Leu Gly Phe
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Val Tyr Asn Glu Gln Ile Arg Asp Leu Leu
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Ile Tyr Val Thr Gly Gly His Leu Phe
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Asn Tyr Met Pro Gly Gln Leu Thr Ile
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Gln Phe Ile Thr Ser Thr Asn Thr Phe
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Tyr Tyr Ser Glu Val Pro Val Lys Leu
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Asn Tyr Gly Val Leu His Val Thr Phe
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Val Phe Ser Pro Asp Gly His Leu Phe
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Val Phe Ile Asp His Pro Val His Leu
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Gln Tyr Leu Glu Leu Ala His Ser Leu
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Leu Tyr Gln Asp His Met Gln Tyr Ile
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Lys Tyr Gln Asn Val Lys His Asn Leu
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Arg Phe Ile Gly Ile Pro Asn Gln Phe
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Ala Tyr Ser His Leu Arg Tyr Val Phe
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Gly Tyr Ile Ser Asn Gly Glu Leu Phe
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Val Phe Leu Pro Arg Val Thr Glu Leu
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Gln Tyr Thr Pro His Ser His Gln Phe
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Val Tyr Ile Ala Glu Leu Glu Lys Ile
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Val Phe Ile Ala Gln Gly Tyr Thr Leu
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Val Tyr Thr Gly Ile Asp His His Trp
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Lys Tyr Pro Ala Ser Ser Ser Val Phe
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Ala Tyr Leu Pro Pro Leu Gln Gln Val Phe
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Arg Tyr Lys Pro Gly Glu Pro Ile Thr Phe
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Arg Tyr Phe Asp Val Gly Leu His Asn Phe
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Gln Tyr Ile Glu Glu Leu Gln Lys Phe
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Thr Phe Ser Asp Val Glu Ala His Phe
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Lys Tyr Thr Glu Lys Leu Glu Glu Ile
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Ile Tyr Gly Glu Lys Thr Tyr Ala Phe
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Glu Tyr Leu Pro Glu Phe Leu His Thr Phe
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Arg Tyr Leu Trp Ala Thr Val Thr Ile
1 5

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Arg Tyr Leu Asp Ser Leu Lys Ala Ile Val Phe
1 5 10

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Leu Tyr Ile Asn Lys Ala Asn Ile Trp
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Tyr Tyr His Phe Ile Phe Thr Thr Leu
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Ile Tyr Asn Gly Lys Leu Phe Asp Leu
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Ile Tyr Asn Gly Lys Leu Phe Asp Leu Leu
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Ser Tyr Ile Asp Val Leu Pro Glu Phe
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Arg Tyr Leu Glu Lys Phe Tyr Gly Leu
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Asn Tyr Pro Lys Ser Ile His Ser Phe
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Val Tyr Gly Ile Arg Leu Glu His Phe
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Gln Tyr Ala Ser Arg Phe Val Gln Leu
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Tyr Phe Ile Ser His Val Leu Ala Phe
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Arg Phe Leu Ser Gly Ile Ile Asn Phe
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Val Tyr Ile Gly His Thr Ser Thr Ile
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Ser Tyr Asn Pro Leu Trp Leu Arg Ile

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Asn Tyr Leu Leu Tyr Val Ser Asn Phe
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Ser Tyr Gln Lys Val Ile Glu Leu Phe
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Ala Tyr Ser Asp Gly His Phe Leu Phe
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Val Tyr Lys Val Val Gly Asn Leu Leu
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Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
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