

<110> immatics biotechnologies GmbH

<120> Noi peptide și combinații de peptide pentru utilizare în
imunoterapie împotriva carcinomului hepatocelular (HCC) și a
altor cancere

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

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Arg Val Ile Glu His Val Glu Gln Val
1 5

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Ser Ile Leu Asp Ile Val Thr Lys Val
1 5

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Ser Leu Ala Glu Ser Ser Phe Asp Val
1 5

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

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Tyr Ile Phe Thr Thr Pro Lys Ser Val

1 5

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Tyr Ile His Asn Ile Leu Tyr Glu Val
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Tyr Leu Gly Pro His Ile Ala Ser Val Thr Leu
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Tyr Leu Leu Glu Lys Phe Val Ala Val
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Tyr Leu Leu His Phe Pro Met Ala Leu
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Tyr	Leu	Tyr	Asn	Asn	Glu	Glu	Gln	Val	Gly	Leu
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Val	Val	Leu	Asp	Gly	Gly	Gln	Ile	Val	Thr	Val
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Ala	Leu	Phe	Pro	Ala	Leu	Arg	Pro	Gly	Gly	Phe	Gln	Ala
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<400> 186

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

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Gln Tyr Ala Ser Arg Phe Val Gln Leu
1 5

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Arg Tyr Ala Pro Pro Pro Ser Phe Ser Glu Phe
1 5 10

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Ala Tyr Leu Lys Trp Ile Ser Gln Ile
1 5

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Arg Trp Pro Lys Lys Ser Ala Glu Phe
1 5

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Leu Tyr Trp Ser His Pro Arg Lys Phe
1 5

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Lys Phe Val Thr Val Gln Ala Thr Phe
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Ala Tyr Leu Leu Gln Pro Ser Gln Phe
1 5

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Ala Tyr Val Asn Thr Phe His Asn Ile
1 5

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<400> 202

Ala Tyr Gly Thr Tyr Arg Ser Asn Phe
1 5

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<400> 203

Tyr Tyr Gly Ile Leu Gln Glu Lys Ile
1 5

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Lys Tyr Arg Leu Thr Tyr Ala Tyr Phe
1 5

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Val Tyr Gly Leu Gln Arg Asn Leu Leu
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Lys Trp Pro Glu Thr Pro Leu Leu Leu
1 5

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

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Ile Tyr Val Thr Ser Ile Glu Gln Ile
1 5

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Ile Tyr Thr Gly Asn Ile Ser Ser Phe
1 5

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<400> 216

Ile Tyr Ala Asp Val Gly Glu Glu Phe
1 5

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Asp Tyr Ile Pro Tyr Val Phe Lys Leu
1 5

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Val Tyr Gln Gly Ala Ile Arg Gln Ile
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Gly Val Met Ala Gly Asp Ile Tyr Ser Val
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Ser Leu Leu Glu Lys Glu Leu Glu Ser Val
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Ala Leu Cys Glu Glu Asn Met Arg Gly Val
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Leu Thr Asp Ile Thr Lys Gly Val
1 5

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Phe Leu Phe Asn Thr Glu Asn Lys Leu Leu Leu
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Ala Leu Ala Ser Val Ile Lys Glu Leu
1 5

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Lys Met Asp Pro Val Ala Tyr Arg Val
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Ala Val Leu Gly Pro Leu Gly Leu Gln Glu Val
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Ala Leu Leu Lys Val Asn Gln Glu Leu
1 5

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Tyr Leu Ile Thr Ser Val Glu Leu Leu
1 5

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<400> 229

Lys Met Phe Glu Ser Phe Ile Glu Ser Val
1 5 10

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Val Leu Thr Glu Phe Thr Arg Glu Val

1

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Arg Leu Phe Asn Asp Pro Val Ala Met Val

1

5

10

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<213> Homo sapiens

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Lys Leu Ala Glu Ile Val Lys Gln Val

1

5

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<400> 233

Ala Leu Leu Gly Lys Leu Asp Ala Ile

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Tyr Leu Glu Pro Tyr Leu Lys Glu Val

1

5

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Lys Leu Phe Glu Glu Ile Arg Glu Ile
 1 5

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<400> 236

Ala Leu Ala Asp Lys Glu Leu Leu Pro Ser Val
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<400> 237

Ala Leu Arg Gly Glu Ile Glu Thr Val
 1 5

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<400> 238

Ala Met Pro Pro Pro Pro Pro Gln Gly Val
 1 5 10

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<400> 239

Phe Leu Leu Gly Phe Ile Pro Ala Lys Ala
 1 5 10

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<400> 240

Phe	Leu	Trp	Glu	Arg	Pro	Thr	Leu	Leu	Val
1				5					10

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<400> 241

Phe	Val	Leu	Pro	Leu	Leu	Gly	Leu	His	Glu	Ala
1				5						10

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<400> 242

Gly	Leu	Phe	Ala	Pro	Val	His	Lys	Val
1				5				

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<400> 243

Gly	Leu	Leu	Asp	Asn	Pro	Glu	Leu	Arg	Val
1				5					10

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<400> 244

Lys	Ile	Ala	Glu	Leu	Leu	Glu	Asn	Val
1				5				

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<213> Homo sapiens

<400> 245

Lys Leu Gly Ala Val Phe Asn Gln Val
1 5

<210> 246
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<400> 246

Lys Leu Ile Ser Ser Tyr Tyr Asn Val
1 5

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<400> 247

Lys Leu Leu Asp Thr Met Val Asp Thr Phe Leu
1 5 10

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<400> 248

Lys Leu Asn Asp Leu Ile Gln Arg Leu
1 5

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Leu Leu Leu Gly Glu Arg Val Ala Leu
1 5

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Asn Leu Ala Glu Val Val Glu Arg Val
1 5

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Arg Leu Phe Ala Asp Ile Leu Asn Asp Val
1 5 10

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Arg Thr Ile Glu Tyr Leu Glu Glu Val
1 5

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Arg Val Pro Pro Pro Pro Gln Ser Val
1 5

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Arg Val Gln Glu Ala Ile Ala Glu Val
1 5

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<400> 255

Ser Leu Phe Gly Gln Asp Val Lys Ala Val
1 5 10

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<400> 256

Ser Leu Phe Gln Gly Val Glu Phe His Tyr Val
1 5 10

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<213> Homo sapiens

<400> 257

Ser Leu Leu Glu Lys Ala Gly Pro Glu Leu
1 5 10

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<400> 258

Ser Leu Met Gly Pro Val Val His Glu Val
1 5 10

<210> 259

<211> 10
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<400> 259

Thr	Leu	Ile	Thr	Asp	Gly	Met	Arg	Ser	Val
1				5					10

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Thr	Leu	Met	Asp	Met	Arg	Leu	Ser	Gln	Val
1				5					10

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<400> 261

Val	Leu	Phe	Gln	Glu	Ala	Leu	Trp	His	Val
1				5					10

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<400> 262

Val	Leu	Pro	Asn	Phe	Leu	Pro	Tyr	Asn	Val
1				5					10

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<400> 263

Val	Leu	Tyr	Pro	Ser	Leu	Lys	Glu	Ile
1				5				

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Val	Met	Gln	Asp	Pro	Glu	Phe	Leu	Gln	Ser	Val
1				5					10	

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Trp	Leu	Ile	Glu	Asp	Gly	Lys	Val	Val	Thr	Val
1				5					10	

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Ser	Leu	Leu	Glu	Ser	Asn	Lys	Asp	Leu	Leu	Leu
1				5					10	

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<400> 267

Ala	Leu	Asn	Glu	Asn	Ile	Asn	Gln	Val
1				5				

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<400> 268

Lys Leu Tyr Gln Glu Val Glu Ile Ala Ser Val
 1 5 10

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Tyr Leu Met Glu Gly Ser Tyr Asn Lys Val
 1 5 10

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<400> 270

Ser Val Leu Asp Gln Lys Ile Leu Leu
 1 5

<210> 271
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<400> 271

Leu Leu Leu Asp Lys Leu Ile Leu Leu
 1 5

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<400> 272

Gln Gln Leu Asp Ser Lys Phe Leu Glu Gln Val
 1 5 10

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Ala	Ile	Leu	Glu	Thr	Ala	Pro	Lys	Glu	Val
1				5					10

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<400> 274

Ala	Leu	Ala	Glu	Ala	Leu	Lys	Glu	Val
1				5				

<210> 275

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<400> 275

Ala	Leu	Ile	Glu	Gly	Ala	Gly	Ile	Leu	Leu
1				5					10

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<400> 276

Ala	Leu	Leu	Glu	Ala	Asp	Val	Asn	Ile	Lys	Leu
1				5					10	

<210> 277

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Ala	Leu	Leu	Glu	Glu	Asn	Ser	Thr	Pro	Gln	Leu
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<400> 278

Ala Leu Thr Ser Val Val Val Thr Leu
1 5

<210> 279
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<400> 279

Ala Leu Trp Thr Gly Met His Thr Ile
1 5

<210> 280
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<400> 280

Ala Thr Leu Asn Ile Ile His Ser Val
1 5

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Gly Leu Leu Ala Gly Asp Arg Leu Val Glu Val
1 5 10

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<400> 282

Gly Gln Phe Pro Ser Tyr Leu Glu Thr Val

1 5 10

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<400> 283

Ile Leu Ser Gly Ile Gly Val Ser Gln Val
 1 5 10

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Lys Leu Asp Ala Phe Val Glu Gly Val
 1 5

<210> 285
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Lys Leu Leu Asp Leu Ser Asp Ser Thr Ser Val
 1 5 10

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Lys Val Leu Asp Lys Val Phe Arg Ala
 1 5

<210> 287
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Gly Leu Ala Glu Asp Ile Asp Lys Gly Glu Val
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Ser Ile Leu Thr Ile Glu Asp Gly Ile Phe Glu Val

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