

## SEQUENCE LISTING

<110> University of Zurich and ETH Zurich  
 <120> Recombinant production of hydrophobic peptides and fusion proteins for use in producing same  
 <130> UN12A03/P-WO  
 <150> EP 08 020 916  
 <151> 2008-12-02  
 <160> 7  
 <170> PatentIn version 3.5  
 <210> 1  
 <211> 42  
 <212> PRT  
 <213> Artificial Sequence  
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 <223> Amyloid beta peptide 1-42 (wt)  
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 <222> (1)..(42)  
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 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
 1 5 10 15  
 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
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 Gly Leu Met Val Gly Gly Val Val Ile Ala  
 35 40  
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 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
 1 5 10 15

Leu Val Phe Phe Ala Gly Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
                   20                                  25                                  30

Gly Leu Met Val Gly Gly Val Val Ile Ala  
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<210> 3  
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 <213> Artificial Sequence

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 <223> Hydrophilic polypeptide

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 <222> (1)..(76)  
 <223> Hydrophilic polypeptide of the formula (NANP)<sub>x19</sub>

<400> 3

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Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro  
                   20                                  25                                  30

Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro  
                   35                                  40                                  45

Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro  
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 <212> PRT  
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<220>  
 <223> protease cleavage site

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 <222> (1)..(7)  
 <223> specific recognition sequence for TEV protease

<400> 4

Glu Asn Leu Tyr Phe Gln Gly  
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<210> 5  
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 <212> PRT  
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 <223> protease cleavage site

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 <221> PEPTIDE  
 <222> (1)..(6)  
 <223> N-terminus of the specific recognition sequence for TEV protease  
 after cleavage

<400> 5

Glu Asn Leu Tyr Phe Gln  
 1 5

<210> 6  
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 <212> PRT  
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 <223> protease cleavage site

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 <221> PEPTIDE  
 <222> (1)..(7)  
 <223> Modified recognition sequence for TEV protease (G/D)

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Glu Asn Leu Tyr Phe Gln Asp  
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 <211> 138  
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 <223> Amyloid beta fusion protein

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 <222> (5)..(11)  
 <223> Histidine-Tag

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 after cleavage

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 <223> Modified recognition sequence for TEV protease (G/D)

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 <222> (97)..(138)  
 <223> Amyloid beta peptide (wt)

<400> 7

Met Arg Gly Ser His His His His His Gly Ser Asn Ala Asn Pro  
 1 5 10 15

Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro  
 20 25 30

Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro  
 35 40 45

Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro  
 50 55 60

Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro  
 65 70 75 80

Asn Ala Asn Pro Asn Ala Asn Pro Arg Ser Glu Asn Leu Tyr Phe Gln  
 85 90 95

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
 100 105 110

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
 115 120 125

Gly Leu Met Val Gly Gly Val Val Ile Ala  
 130 135