

06/25/2018 - Good work Maryam

6/07/18

Translation Map results

Results for 802 residue sequence "Untitled" starting "NNNNNNNNNN"

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1  X X X X X X X X R Y T Y A P S S S S F F
1  X X X X X L X X E I Y I C T I I I I L
1  X X X X X X X X D I H M H H H H H S
1  NNNNNNNNNNNNNNNNCTTNNNGNNGAGATATACATATGCACCATCATCATCATTCT
1      10      20      30      40      50
1  NNNNNNNNNNNNNNNNGAANNNCNNCTCTATATGTATACGTGGTAGTAGTAGTAAGA
21  W C R S G Y R E P V L P I H A * T S S H
21  L V * I W V P R T C T S N P C V N V L T
21  S G V D L G T E N L Y F Q S M R E R P H
61  TCTGGTGTAGATCTGGGTACCGAGAACCTGTACTTCCAATCCATGCGTGAACGTCCTCAC
61      70      80      90      100     110
61  AGACCACATCTAGACCCATGGCTCTTGGACATGAAGGTTAGGTACGCACTTGCAGGAGTG
41  Q R S P R C G * G A C D G S F Y R F S I
41  P A V T T V R V R R V R R L L L P F L H
41  T S G H H G A G E A R A T A P S T V S P
121  ACCAGCGGTACCCACGGTGCGGGTGAGGCGCGTGCGACGGCTCCTTCTACCGTTTCTCCA
121      130     140     150     160     170
121  TGGTCGCCAGTGGTGCCACGCCCACTCCGCGCACGCTGCCGAGGAAGATGGCAAAGAGGT
61  R S G S P C G T E L S S D H P A * Y P G
61  T V R K P V R N * A L V * P P C V I P W
61  Y G P E A R A E L S S R L T T L R N T L
181  TACGGTCCGGAAGCCCGTGCGGAACTGAGCTCTCGTCTGACCACCCTGCGTAATACCCTG
181      190     200     210     220     230
181  ATGCCAGGCCTTCGGGCACGCCTTGACTCGAGAGCAGACTGGTGGGACGCATTATGGGAC
81  S G D Q R P A L P P G V R W * K T E P F
81  L R R P T T R V T S R R A V V K N * T V
81  A P A T N D P R Y L Q A C G G E K L N R
241  GCTCCGGCGACCAACGACCCGCGTTACCTCCAGGCGTGCGGTGGTGAAGAACTGAACCGT
241      250     260     270     280     290
241  CGAGGCCGCTGGTTGCTGGGCGCAATGGAGGTCCGCACGCCACCACTTTTGGACTTGGCA
101  S * H P V S S P D C C T R G P E R E L Y
101  F V T S S V V A R L L Y A R T * T R T I
101  F R D I Q C R R Q T A V R A D L N A N Y
301  TTTCTGTGACATCCAGTGTCTGTCGCCAGACTGCTGTACGCGCGGACCTGAACGCGAACTAT
301      310     320     330     340     350
301  AAAGCACTGTAGGTCACAGCAGCGGTCTGACGACATGCGCGCCTGGACTTGCCTTGATA
121  P G R * H P Y H R V P V S A A I S T G V
121  S R S V T P V P S R A S I R C N L N W S
121  I Q V G N T R T I A C Q Y P L Q S Q L E
361  ATCCAGGTGCGTAACACCCGTACCATCGCGTGCCAGTATCCGCTGCAATCTCAACTGGAG
361      370     380     390     400     410
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Translated YopH DNA sequence sample to find I232

NNNNNNNNNNNNNNNNNCTTNNNGNNGAGATATACATATGCACCATCATCATCATATTCTTCTGGTGTAGATCTGG
 GTACCGAGAACCTGTACTTCCAATCCATGCGTGAACGTCCTCACACCAGCGGTACACACGGTGCGGGTGAGGCGCGT
 GCGACGGCTCCTTCTACCGTTTCTCCATACGGTCCGGAAGCCCGTGCGGAAGTGAAGCTCTCGTCTGACCACCCTGCG
 TAATACCCTGGCTCCGCGGACCAACGACCCGCGTTACCTCCAGGCGTGCGGTGGTGAAAACTGAACCGTTTTCTGTCG
 ACATCCAGTGTGTCGTCGCCAGACTGCTGTACGCGCGGACCTGAACGCGAACTATATCCAGGTCGGTAACACCCGTACC
 ATCGCGTGCCAGTATCCGCTGCAATCTCAACTGGAGTCTCACTTCCGTATGCTGGCCGAAAACCGCACCCCGGTGCTC
 GCGGTTCTGGCGTCCTCTCTGAAATCGCTAACAGCGCTTTGGTATGCCGGAAGTACTTTCGTCAATCTGGTACCTACG
 GCTCTATACCGTTGAATCTAAGATGACCCAGCAAGTTGGCCTGGGTGACGGTATCATGGCGGACATGTACACGCTG
 ACCATCCGTGAAGCCGGTCAGAAAACCATCAGCGTCCCAGTGGTCCACGTTGGTAACTGGCCGGATCAGACCGCAG
 TTAGCAGCGAGGNTTACGAAAGCCCTCGCGTCTCTGGTTGACCAAACGGCGGANACTAAACGTAACATGTATGAAA
 GCAAAGGNNNNNNNGCGGNNNGNNGACNANTCN

Putting into NeBase changer (84th is CAT)

CTGCGTAATACCCTGGCTCCGGCGACCAACGACCCGCGTTACCTCCAGGCGTGCGGTGGTGAAAACTGAACCGTTT
 TCGTGAACATCCAGTGTGTCGCCAGACTGCTGTACGCGCGGACCTGAACGCGAACTATATCCAGGTCGGTAACACCC
 GTACCATCGCGTGCCAGTATCCGCTGCAATCTCAACTGGAGTCTCACTTCCGTATGCTGGCCGAAAACCGCAC

Input

Click and drag to set mutagenesis region

>okie 227 bp

CTGCGTAATACCCTGGCTCCGGCGACCAACGACCCGCGTTACCTCCAGGC
 GTGCGGTGGTGAAAACTGAACCGTTTTCTGTGAACATCCAGTGTGTCGCC
 AGACTGCTGTACGCGCGGACCTGAACGCGAACTATATCCAGGTCGGTAAC
 ACCCGTACCATCGCGTGCCAGTATCCGCTGCAATCTCAACTGGAGTCTCA
 CTTCCGTATGCTGGCCGAAAACCGCAC

okie 227 bp

Substitution

Insertion

Deletion

Find:

Start and end positions included in substitution.

Start (5') End (3')

Desired Sequence

Common Peptide Tags

Result

G E K L N R F R E T Q C R
 W * K T E P F S * N P V S
 V V K N * T V F V K P S V V
 GTGGTGAAAACTGAACCGTTTCTGTGAACATCCAGTGTGTCGCC
 CACCACTTTTGAAGTTGGCAGCACTTTGGGTCACAGCAG

Required Primers

Name (F/R)	Oligo (Uppercase = target-specific primer)	Len	% GC	Tm	Ta *
Q5SDM_6/7/2018_F	GTTTTCGTGAaaccCAGTGTGTC	24	50	61°C	59°C
Q5SDM_6/7/2018_R	GGTTCAGTTTTTCACCAC	18	44	58°C	

* Ta (recommended annealing temperature)

Changed base from isoleucine to asparagine to find primers needed

5

ACTIONS

QTY:

1

\$3.78

Product

25 nmole DNA Oligo

Expected Ship Date

6/7/2018

Purification

Standard Desalting

Guaranteed Yield

3 ODs =
13.4 nmol =
98.3 µgrams

Length

24

Sequence

GTT TTC GTG AAA CCC AGT GTC GTC

6

ACTIONS

QTY:

1

\$2.84

Product

25 nmole DNA Oligo

Expected Ship Date

6/7/2018

Purification

Standard Desalting

Guaranteed Yield

3 ODs =
18.3 nmol =
99.6 µgrams

Length

18

Sequence

GGT TCA GTT TTT CAC CAC

Ordering primers