

UASP-mCherry-Abi

5540 5550 5560 5570 5580 5590 5600
TCATTGGTACCGATGGTGAGCAAGGGCGAGGAGGATAACATGGCCATCATCAAGGAGTTCATGCGCTTCA
M V S K G E E D N M A I I K E F M R F>
M V S K G E E D N M A I I K E F M R F>

5610 5620 5630 5640 5650 5660 5670
AGGTGCACATGGAGGGCTCCGTGAACGGCCACGAGTTCGAGATCGAGGGCGAGGGCGAGGGCCGCCCTA
K V H M E G S V N G H E F E I E G E G E G R P Y>
K V H M E G S V N G H E F E I E G E G E G R P Y>

5680 5690 5700 5710 5720 5730 5740
CGAGGGCACCCAGACCGCCAAGCTGAAGGTGACCAAGGGTGGCCCCCTGCCCTTCGCCTGGGACATCCTG
E G T Q T A K L K V T K G G P L P F A W D I L>
E G T Q T A K L K V T K G G P L P F A W D I L>

5750 5760 5770 5780 5790 5800 5810
TCCCCTCAGTTCATGTACGGCTCCAAGGCCTACGTGAAGCACCCCGCCGACATCCCCGACTACTTGAAGC
S P Q F M Y G S K A Y V K H P A D I P D Y L K>
S P Q F M Y G S K A Y V K H P A D I P D Y L K>

5820 5830 5840 5850 5860 5870 5880
TGTCCTTCCCCGAGGGCTTCAAGTGGGAGCGCGTGATGAACCTTCGAGGACGGCGGCGTGGTGACCGTGAC
L S F P E G F K W E R V M N F E D G G V V T V T>
L S F P E G F K W E R V M N F E D G G V V T V T>

5890 5900 5910 5920 5930 5940 5950
CCAGGACTCCTCCCTGCAGGACGGCGAGTTCATCTACAAGGTGAAGCTGCGCGGCACCAACTTCCCCTCC
Q D S S L Q D G E F I Y K V K L R G T N F P S>
Q D S S L Q D G E F I Y K V K L R G T N F P S>

5960 5970 5980 5990 6000 6010 6020
GACGGCCCCGTAATGCAGAAGAAGACCATGGGCTGGGAGGCCTCCTCCGAGCGGATGTACCCCGAGGACG
D G P V M Q K K T M G W E A S S E R M Y P E D>
D G P V M Q K K T M G W E A S S E R M Y P E D>

6030 6040 6050 6060 6070 6080 6090
GCGCCCTGAAGGGCGAGATCAAGCAGAGGCTGAAGCTGAAGGACGGCGGCCACTACGACGCTGAGGTCAA
G A L K G E I K Q R L K L K D G G H Y D A E V K>
G A L K G E I K Q R L K L K D G G H Y D A E V K>

6100 6110 6120 6130 6140 6150 6160
GACCACCTACAAGGCCAAGAAGCCCGTGCAGCTGCCCGGCCTACAACGTCAACATCAAGTTGGACATC
T T Y K A K K P V Q L P G A Y N V N I K L D I>
T T Y K A K K P V Q L P G A Y N V N I K L D I>

6170 6180 6190 6200 6210 6220 6230
ACCTCCCACAACGAGGACTACACCATCGTGGAACAGTACGAACGCGCCGAGGGCCGCACTCCACCGGCG
T S H N E D Y T I V E Q Y E R A E G R H S T G>
T S H N E D Y T I V E Q Y E R A E G R H S T G>

6240 6250 6260 6270 6280 6290 6300
GCATGGACGAGCTGTACAAAGCCGGCCGCATGTTGACCGAAACCCCATGGCCAGCGAGAACATCATGGA
G M D E L Y K A G R M L T E T P M A S E N I M D>
G M D E L Y K A>

6310 6320 6330 6340 6350 6360 6370
CGAACTAGCCTCTCTGATACGCACCGAGATCCCCGATGGCCGCCAGAGTCTGCGGGACAGCTACACGAAC
E L A S L I R T E I P D G R Q S L R D S Y T N>

6380 6390 6400 6410 6420 6430 6440
CTGGAGCGGGTGGCCGACTACTGCGAGGACACCTACTACCGCGCGGACAACAAGAAGGCGGCCCTGGAGG

L E R V A D Y C E D T Y Y R A D N K K A A L E>

6450 6460 6470 6480 6490 6500 6510
CCACCAAGAACTACACCACCCAGTCGCTGGCCAGCGTGGCCTACCAGATTAACACGCTCGCCTATAGCTA
A T K N Y T T Q S L A S V A Y Q I N T L A Y S Y>

6520 6530 6540 6550 6560 6570 6580
CATGCAGCTCCTCGAGCTTCAGGCCAGCAGCTCGGCGAGATGGAGTCCCAGATGAACCACATCGCCCAG
M Q L L E L Q A Q Q L G E M E S Q M N H I A Q>

6590 6600 6610 6620 6630 6640 6650
ACGGTGCATATCCACAAGGAGAAGGTGGCCAGGAGGTAAGAACAACAAATTGCTTAAACTAGAAATAGGAA
T V H I H K E K V A R R>

6660 6670 6680 6690 6700 6710 6720
AAGGGGATATGCATATTTTTAAAACGACAAAGAATACGGAATGAACATTTTTTGTCTGTAAGTACGACTCAT

6730 6740 6750 6760 6770 6780 6790
CGGTGATAAAAAGCTTCATAGAGAAGAAATGTACATTCATACATGCGTCGTCAGACGTGCTGATAAGACTG

6800 6810 6820 6830 6840 6850 6860
AACGTCTCTTTCTTCATTCTTTTCCTACATAACTATTTAGTTTTTTCAATTCACCTTTATTTGTATTAATT

6870 6880 6890 6900 6910 6920 6930
ATTTTTGATTATCTTCATTGTCTTTTCTCAGAGAGATTGGCGTGCTTACGGCTAACAAAGGTGAGCTCGCG
E I G V L T A N K V S S R>

6940 6950 6960 6970 6980 6990 7000
CCAGTTTAAAGATCGTGGCGCCCATCAATCCGGAGAAGCCCATCAAGTATGTGCGCAAGCCCATCGACTAC
Q F K I V A P I N P E K P I K Y V R K P I D Y>

7010 7020 7030 7040 7050 7060 7070
TCGATGTTGGACGAGATTGGCCACGGCATTAACTCGGCCAGCACTCGCAGGTGCGACAGAAACATCGGG
S M L D E I G H G I N S A Q H S Q V R Q K H R>

7080 7090 7100 7110 7120 7130 7140
GCTCCAGCCATGGGTCCGTGCAATCCTTATTGCCGCCGTGCGTGGGACCTCCGCCAACCACGAAGCCCC
G S S H G S V Q S L L P P S V G P P P T T K P P>

7150 7160 7170 7180 7190 7200 7210
AACTCCGCCGAGATGTCGCGAGCTGGGAACACTGGCACACTGGGCAAGTCGGTCAGCAATACCGGGACA
T P P Q M S R A G N T G T L G K S V S N T G T>

7220 7230 7240 7250 7260 7270 7280
CTGGGCAAGAGTTCGCGGGAGTACCGCACTCCGCCTGTGGTCAATCCACCACAGGTGCCATCGCACTACG
L G K S S R E Y R T P P V V N P P Q V P S H Y>

7290 7300 7310 7320 7330 7340 7350
CTCCCAACTATCCTATTGGGCATCCAAAGCGAATGTCGACGGCTTCTTCAACGATGACTACCACCACCAC
A P N Y P I G H P K R M S T A S S T M T T T T T>

7360 7370 7380 7390 7400 7410 7420
AGGCGGCGGAGCGGCGGGCAATGAACGAGCTGCTGGCTACAGTGCACCTCCGATGCCACCCAGCCAGCAG
G G G A A G N E R A A G Y S A L P M P P S Q Q>

7430 7440 7450 7460 7470 7480 7490
ATAGCCACACATGTAAACCTGCCCTCCGCGGGCATGATGCAATCGCTGCCACCACCGCCGCCACTACGT
I A T H V N L P S A G M M Q S L P P P P P T T>

7500 7510 7520 7530 7540 7550 7560
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Y D D R S S M P P>

7570 7580 7590 7600 7610 7620 7630
GTTTGCAATTCGTAGCAGCTCCTCCTTCACCACTTACGGTTTTCGCAGCACGAGATGACCGAGCAGAGTCA
A P P S P L T V S Q H E M T E Q S H>

7640 7650 7660 7670 7680 7690 7700
CATTGGCATGCACACTTTGGGACGCAATATCAACAGGTAAGTTTTCTGGAAAATGCAATCCCTTCTTTTGTG
I G M H T L G R N I N R>

7710 7720 7730 7740 7750 7760 7770
TAAATATAACCTATTTATTGTTCTCTGTGCAAATCCAGGAATCCAAATAGGTAAATTGCATGTTTCTCTG

7780 7790 7800 7810 7820 7830 7840
TTTATCATAGGGTTATACTCAGCTAAAAAAGTTATACTAGGTTTTTCGTGTTTGTACTGTGTATAACTCC

7850 7860 7870 7880 7890 7900 7910
ATGAAATTCATATGTTATCTTGTATATTAACGCGTATTTTTCCAAAGGAATCACTTCAGCTTGAACCTC
N H F S L N F>

7920 7930 7940 7950 7960 7970 7980
GCTCGTCCCGGCTCACAGTCGCCTCCCTTGCCACCTCCGCCGCCCGGAGGATGAGCATCAAGACTTCG
A R P G S Q S P P L P P P P P P E D E H Q D F>

7990 8000 8010 8020 8030 8040 8050
GACGACCACGCACATCGACGGGACCGCAGCTGGCGCCCATAGTGCCCGAGGATCAGAACTTACCCGGCTG
G R P R T S T G P Q L A P I V P E D Q N L P G W>

8060 8070 8080 8090 8100 8110 8120
GGTGCCCAAGAACTTCATTGAGAAGGGTAGGCTGATTGGAGCAACTAACAATATACCTTACTAATTCTTA
V P K N F I E K V>

8130 8140 8150 8160 8170 8180 8190
CAAACATTCCAGTGGTAGCCATTTACGACTACTATGCCGACAAGGACGACGAGCTGAGCTTCCAGGAAAG
V A I Y D Y Y A D K D D E L S F Q E S>

8200 8210 8220 8230 8240 8250 8260
CTCAGTGCTGTACGTGCTCAAGAAAAACGACGACGGCTGGTGGGAGGGCGTCATGGATGGTGTACCAGGT
S V L Y V L K K N D D G W W E G V M D G V T G>

8270 8280 8290 8300 8310 8320 8330
CTGTTTCCGGGCAACTACGTAGAGCCTTGTGTCTAGAGTGCACCTCGAACGTTAACGTTAACGTTAACGTT
L F P G N Y V E P C V *