*p*Aminopeptidase N VersaClone cDNA

Catalog Number: RDC3110

Specifications:

Gene:	*p*ANPEP
Accession:	NP_999442.1
Insert size:	2905bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

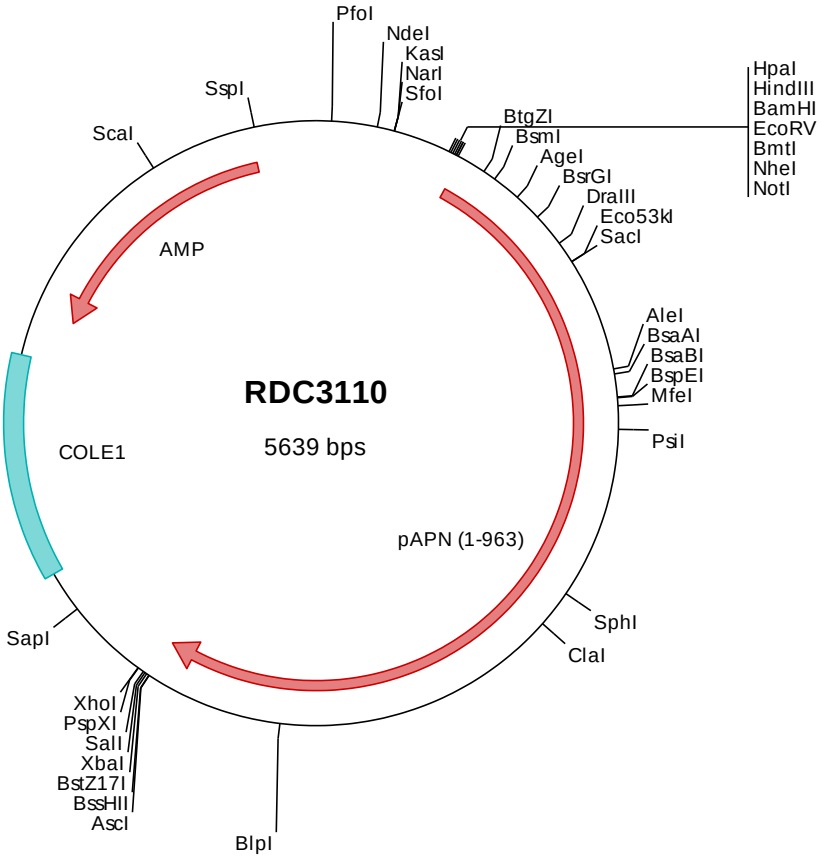
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*p*Aminopeptidase N cDNA Plasmid

ANPEP alanyl aminopeptidase, membrane [*Sus scrofa* (pig)]

Also known as: APN; PEPN

Summary:
Aminopeptidase N is widely expressed in many cells, tissues and species. Aminopeptidase N cleaves the N-terminal amino acids from bioactive peptides, leading to their inactivation or degradation. It has roles in many fields such as neuroscience, hematopoietic cells, immune system, angiogenesis, cancer and viral infection. Defects in Aminopeptidase N appear to be a cause of various types of leukemia or lymphoma.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
a bio-techne brand

> RDC3110 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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 501  cctcggcgtg gcggccgtgg ccaccatcat cgctctgtct gtggtgtacg cccaggagaa gaacaagaat gccgagcatg tccctcaggc ccctacgtcg
 601  cccaccatca ccaccacagc cgccatcacc ttggaccaga gcaagccgtg gaaccggtac cgcctaccca caacgctgtt gcctgattcc tacttcgtga
 701  cgctgagacc ctacctcact cccaacgcgg atggcctgta catcttcaag ggcaaaagca tcgtccgctt actctgccag gagcccaccg atgtcatcat
 801  catccatagc aagaagctca actacaccac ccaggggcac atggtggtcc tgcggggcgt gggggactcc caggtcccag agatcgacag gactgagctg
 901  gtagagctca ctgagtacct ggtggtccac ctcaagggct cgctgcagcc cggccacatg tacgagatgg agagtgaatt ccaggcggaa cttgccgacg
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1101  atgctttgac gagccagcca tgaaggccac gttcaacatc actctcatcc accctaacaa cctcacggcc ctgtccaata tgccgcccaa aggttccagc
1201  accccacttg cagaagaccc caactggtct gtcactgagt tcgaaaccac acctgtgatg tccacgtacc ttctggccta catcgtgagc gagttccaga
1301  gcgtgaatga aacggcccaa aatggcgtcc tgatccggat ctgggctcgg cctaatgcaa ttgcagaggg ccatggcatg tatgccctga atgtgacagg
1401  tcccatccta aacttctttg ccaatcatta taatacatcc tacccactcc ccaaatccga ccagattgcc ttgcccgact tcaatgccgg tgccatggag
1501  aactgggggc tggtgaccta ccgggagaac gcgctgctgt ttgacccaca gtcctcctcc atcagcaaca aagagcgagt tgtcactgtg attgctcacg
1601  agctggccca ccagtggttt ggcaacctgg tgaccctggc ctggtggaat gacctgtggc tgaatgaggg ctttgcctcc tatgtggagt acctgggtgc
1701  tgaccacgca gagcccacct ggaatctgaa agacctcatc gtgccaggcg acgtgtaccg agtgatggct gtggatgctc tggcttcctc ccacccgctg
1801  accacccctg ctgaggaggt caacacacct gcccagatca gcgagatgtt tgactccatc tcctacagca agggagcctc ggttatcagg atgctctcca
1901  acttcctgac tgaggacctg ttcaaggagg gcctggcgtc ctacttgcat gcctttgcct atcagaacac cacctacctg gacctgtggg agcacctgca
2001  gaaggctgtg gatgctcaga cgtccatcag gctgccagac actgtgagag ccatcatgga tcgatggacc ctgcagatgg gcttccccgt catcaccgtg
2101  gacaccaaga caggaaacat ctcacagaag cacttcctcc tcgactccga atccaacgtc acccgctcct cagcgttcga ctacctctgg attgttccca
2201  tctcatctat taaaaatggt gtgatgcagg atcactactg gctgcgggat gtttcccaag cccagaatga tttgttcaaa accgcatcgg acgattgggt
2301  cttgctgaac gtcaacgtga caggctattt ccaggtgaac tacgacgagg acaactggag gatgattcag catcagctgc agacaaacct gtcggtcatc
2401  cctgtcatca atcgggctca ggtcatctac gacagcttca acctggccac tgcccacatg gtccctgtca ccctggctct ggacaacacc ctcttcctga
2501  acggagagaa agagtacatg ccctggcagg ccgccctgag cagcctgagc tacttcagcc tcatgttcga ccgctccgag gtctatggcc ccatgaagaa
2601  atacctcagg aagcaggtcg aacccctctt ccaacatttc gaaactctca ctaaaaactg gaccgagcgc ccagaaaatc tgatggacca gtacagtgag
2701  attaatgcca tcagcactgc ctgctccaat ggattgcctc aatgtgagaa tctggccaag acccttttcg accagtggat gagcgaccca gaaaataacc
2801  cgatccaccc caacctgcgg tccaccatct actgcaatgc catagcccag ggcggccagg accagtggga ctttgcctgg gggcagttac aacaagccca
2901  gctggtaaat gaggccgaca aactccgctc agcgctggcc tgcagcaacg aggtctggct cctgaacagg tacctgggtt acaccctgaa cccggacctc
3001  attcggaagc aagacgccac ctccactatt aacagcattg ccagcaatgt catcgggcag cctctggcct gggattttgt ccagagcaac tggaagaagc
3101  tctttcagga ctatggcggt ggttccttct ccttctccaa cctcatccag ggtgtgaccc gaagattctc ctctgagttt gagctgcagc agctggagca
3201  gttcaagaag aacaacatgg atgtgggctt cggctccggc acccgggctc tggagcaagc cctggagaag accaaggcca acatcaagtg ggtgaaggag
3301  aacaaggagg tggtgttgaa ttggttcata gagcacagct aaaggcgcgc cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct
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3501  ggggtgccta atgagtgagc taactcacat taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg
3601  ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct tccgcttcct cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca
3701  gctcactcaa aggcggtaat acggttatcc acagaatcag gggataacgc aggaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa
3801  aggccgcgtt gctggcgttt ttccataggc tccgcccccc tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata
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4001  gtggcgcttt ctcaatgctc acgctgtagg tatctcagtt cggtgtaggt cgttcgctcc aagctgggct gtgtgcacga acccccgtt cagcccgacc
4101  gctgcgcctt atccggtaac tatcgtcttg agtccaaccc ggtaagacac gacttatcgc cactggcagc agccactggt aacaggatta gcagagcgag
4201  gtatgtaggc ggtgctacag agttcttgaa gtggtggcct aactacggct acactagaag gacagtattt ggtatctgcg ctctgctgaa gccagttacc
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4601  gcacctatct cagcgatctg tctatttcgt tcatccatag ttgcctgact ccccgtcgtg tagataacta cgatacggga gggcttacca tctggcccca
4701  gtgctgcaat gataccgcga gacccacgct caccggctcc agatttatca gcaataaacc agccagccgg aagggccgag cgcagaagtg gtcctgcaac
4801  tttatccgcc tccatccagt ctattaattg ttgccgggaa gctagagtaa gtagttcgcc agttaatagt ttgcgcaacg ttgttgccat tgctacaggc
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5201  gataataccg cgccacatag cagaacttta aaagtgctca tcattggaaa acgttcttcg gggcgaaaac tctcaaggat cttaccgctg ttgagatcca
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5501  atatttgaat gtatttagaa aaataaacaa atagggttc cgcgcacatt tccccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat
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> RDC3110 Translated Insert Sequence

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 101  gksivrllcq eptdviiihs kklnyttqgh mvvlrgvgds qvpeidrtel velteylvvh lkgslqpghm yemesefqge laddlagfyr seymegnvkk
 201  vlattqmqst darksfpcfd epamkatfni tlihpnnlta lsnmppkgss tplaedpnws vtefettpvm styllayivs efqsvnetaq ngvliriwar
 301  pnaiaeghgm yalnvtgpil nffanhynts yplpksdqia lpdfnagame nwglvtyren allfdpqsss isnkervvtv iahelahqwf gnlvtlawwn
 401  dlwlnegfas yveylgadha eptwnlkdli vpgdvyrvma vdalasshpl ttpaeevntp aqisemfdsi syskgasvir mlsnfltedl fkeglasylh
 501  afayqnttyl dlwehlqkav daqtsirlpd tvraimdrwt lqmgfpvitv dtktgnisqk hflldsesnv trssafdylw ivpissikng vmqdhywlrd
 601  vsqaqndlfk tasddwvlln vnvtgyfqvn ydednwrmiq hqlqtnlsvi pvinraqviy dsfnlatahm vpvtlaldnt lflngekeym pwqaalssls
 701  yfslmfdrse vygpmkkylr kqveplfqhf etltknwter penlmdqyse inaistacsn glpqcenlak tlfdqwmsdp ennpihpnlr stiycnaiaq
 801  ggqdqwdfaw gqlqqaqlvn eadklrsala csnevwllnr ylgytlnpdl irkqdatsti nsiasnvigq plawdfvqsn wkklfqdygg gsfsfsnliq
 901  gvtrrfssef elqqleqfkk nnmdvgfgsg traleqalek tkanikwvke nkevvlnwfi ehs
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