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Product datasheet for SC317810

Aspartyl Aminopeptidase (DNPEP) (NM_012100) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aspartyl Aminopeptidase (DNPEP) (NM_012100) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNPEP
Synonyms:	ASPEP; DAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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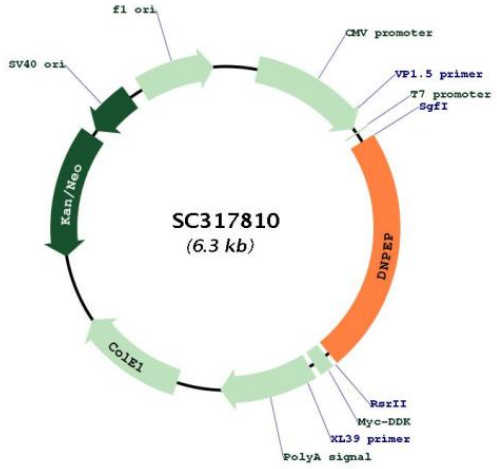
Fully Sequenced ORF:

>SC317810 representing NM_012100.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCGGACACAGCCCCACGCGCGGGGCCATGCAGGTGGCCATGAACGGTAAGGCCCGCAAAGAGGCG
GTGCAGACTGCGGCTAAGGAACTCCTCAAGTTCGTGAACCGGAGTCCCTCTCCTTTCCATGCTGTGGCT
GAATGCCGCAACCGCCTTCTCCAGGCTGGCTTCAGTGAACTCAAGGAGACTGAGAAATGGAATATTAAG
CCCGAGAGCAAGTACTTCATGACCAGGAACTCCTCCACCATCATAGCTTTTGCTGTAGGGGGCCAGTAC
GTTCCTGGCAATGGCTTCAGCCTCATCGGGGCCCACACGGACAGCCCCTGCCTCCGGGTGAAACGTCGG
TCTCGCCGCAGCCAGGTGGGCTTCCAGCAAGTCGGTGTGGAGACCTATGGTGGTGGGATCTGGAGCACC
TGGTTTGACCGTGACCTGACTCTGGCTGGACGCGTCATTGTCAAGTGCCCTACCTCAGGTCGGCTGGAG
CAGCAGCTGGTGCACGTGGAGCGGCCCATTCTTCGCATCCCACACCTGGCCATCCATCTGCAGCGAAAT
ATCAACGAGAACTTTGGGCCCAACACAGAGATGCATCTAGTCCCCATTCTTGCCACAGCCATCCAGGAG
GAGCTGGAGAAGGGGACTCCTGAGCCAGGGCCTCTCAATGCTGTGGATGAGCGGCACCATTCGGTCCTC
ATGTCCCTGCTCTGTGCCCATCTGGGGCTGAGCCCCAAGGACATAGTGGAGATGGAGCTCTGCCTTGCA
GACACCCAGCCTGCGGTCTTGGGTGGTGCCTATGATGAGTTCATCTTTGCTCCTCGGCTGGACAATCTG
CACAGCTGCTTCTGTGCCCTGCAGGCCTTGATAGATTCCTGTGCAGGCCCTGGCTCCCTGGCCACAGAG
CCTCACGTGCGCATGGTCACACTCTATGACAACGAAGAGGTGGGGTCTGAGAGTGCACAGGGAGCACAG
TCACTGCTGACAGAGCTGGTGCTGCGGCGGATCTCAGCCTCGTGCCAGCACCCGACAGCCTTCGAGGAA
GCCATACCCAAGTCCTTCATGATCAGCGCAGACATGGCCCATGCTGTGCATCCCAACTACCTGGACAAG
CATGAGGAGAACCACCGGCCTTTATTCCACAAGGGCCCCGTGATCAAGGTGAACAGCAAGCAACGCTAT
GCTTCAAACGCGGTGTCAGAGGCCCTGATCCGAGAGGTGGCCAACAAAGTCAAGGTCCCCCTGCAGGAT
CTCATGGTCCGGAATGACACCCCCTGTGGAACCACCATTGGACCTATCTTGGCTTCTCGGCTGGGGCTG
CGGGTGCTGGATTTAGGCAGCCCCCAACTGGCCATGCACTCTATCCGGGAGATGGCCTGCACCACAGGA
GTCCTCCAGACCCTCACCCTCTTCAAGGGCTTCTTTGAGCTGTTCCCTTCTCTAAGCCATAATCTCTTA
GTGGATTGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

Plasmid Map:



ACCN: NM_012100

Insert Size:	1458 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_012100.3
RefSeq Size:	3884 bp
RefSeq ORF:	1458 bp
Locus ID:	23549
UniProt ID:	Q9ULA0
Cytogenetics:	2q35
Domains:	Peptidase_M18
Protein Families:	Druggable Genome, Protease
MW:	53.4 kDa
Gene Summary:	The protein encoded by this gene is an aminopeptidase which prefers acidic amino acids, and specifically favors aspartic acid over glutamic acid. It is thought to be a cytosolic protein involved in general metabolism of intracellular proteins. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016] Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (c) has a shorter and distinct N-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.