

Product datasheet for **SC324869**

Enkephalin (PENK) (NM_001135690) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enkephalin (PENK) (NM_001135690) Human Untagged Clone
Tag:	Tag Free
Symbol:	PENK
Synonyms:	PE; PENK-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001135690, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCGTTTCCTGACACTTTGCACTTGGCTGCTGTTGCTCGGCCCGGGCTCCTGGCGACCGTGCGGG  
CCGAATGCAGCCAGGATTGCGCGACGTGCAGCTACCGCCTAGTGCGCCCGGCCGACATCAACTTCTGCG  
TTGCGTAATGGAATGTGAAGGTAAGTGCCTTCTCTGAAAATTTGGAAACCTGCAAGGAGCTCCTGCAG  
CTGTCCAAACCAGAGCTTCTCAAGATGGCACCAGCACCTCAGAGAAAAAGCAAAACCGGAAGAAAGCC  
ATTTGCTAGCCAAAAGGTATGGGGGCTTCATGAAAAGGTATGGAGGCTTCATGAAGAAAAATGGATGAGCT  
TTATCCCATGGAGCCAGAAGAAGAGGCCAATGGAAGTGAGATCCTCGCCAAGCGGTATGGGGGCTTCATG  
AAGAAGGATGCAGAGGAGGACGACTCGCTGGCCAATTCCTCAGACCTGCTAAAAGAGCTTCTGGAACAG  
GGGACAACCGAGAGCGTAGCCACCACCAGGATGGCAGTGATAATGAGGAAGAAGTGAGCAAGAGATATGG  
GGGCTTCATGAGAGGCTTAAAGAGAAGCCCAACTGGAAGATGAAGCCAAAGAGCTGCAGAAGCGATAT  
GGGGGCTTCATGAGAAGAGTAGGTGCGCCAGAGTGGTGGATGGACTACCAGAAACGGTATGGAGGTTTCC  
TGAAGCGCTTTGCCGAGGCTCTGCCCTCCGACGAAGAAGGCGAAAAGTTACTCCAAGAAGTTCCTGAAAT  
GGAAAAAAGATACGGAGGATTTATGAGATTTTAA
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Restriction Sites:	Please inquire
ACCN:	NM_001135690
Insert Size:	1200 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).



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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:	<ol style="list-style-type: none"> 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:	<u>NM_001135690.1</u> , <u>NP_001129162.1</u>
RefSeq Size:	1354 bp
RefSeq ORF:	804 bp
Locus ID:	5179
UniProt ID:	<u>P01210</u>
Cytogenetics:	8q12.1
Protein Families:	Secreted Protein
Gene Summary:	This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include the pentapeptide opioids Met-enkephalin and Leu-enkephalin, which are stored in synaptic vesicles, then released into the synapse where they bind to mu- and delta-opioid receptors to modulate the perception of pain. Other non-opioid cleavage products may function in distinct biological activities. [provided by RefSeq, Jul 2015]