

Product datasheet for **SC313038**

PION (GSAP) (AL834358) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PION (GSAP) (AL834358) Human Untagged Clone
Tag:	Tag Free
Symbol:	PION
Synonyms:	PION
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AL834358, the custom clone sequence may differ by one or more nucleotides

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ATGTCAGAACAGAGATTATATTACATTGACCTGAAGAAATCAAGGAGTATCTTAAATGT
ATCCAGTTTTATGCTGATGAGAGCTATAACTTAATGTTTGAAGTACCCTTGGACATATCA
TTAAGCAACTCAGGATTTAACTTGCTCACTTTGGATGTGATTATCATCAATACCGAGAT
AAATTTTCCAACACCTGACTCTGTGTGTTTTACCAACCATACAGGAAGTTTGTGTGTA
TGTTACAGCCCGAAGTGTGCCTCTTGGGACAAATCACATATTCAGTGTTTTACATTCAT
AAAGGACACAGCAAGACCTTCACCACTTCTCTTGAGAATGTTGGGTACACATGACAAAG
GGCATTACTTTTTCTCAACCTTGACTATTATGTGGCTGTTTACTTACCTGGTCATTTCTTC
CACCTACTTAATGTTCAACATCCAGACCTGATCTGCCACAATCTCTTTCTGACAGGAAAT
AATGAAATGATTGATATGCTACCTCATTGCCCTTTACAGTCATTGTCAGGGTCCCTGGTA
TTGGATTGTTGTTCTGGAAAGCTCTATAGAGCACTGCTCAGCCAGTCGTCTTTATTACAG
CTTCTGCAGAACACTTGCTTAGACTGTGAGAAGATGGCTGCGTTGCACTGTGCGCTCTAC
TGCGGTCAAGGTGCGCAGTTCTTGAAGCCAGATTATTCAGTGGATTTCTGAGAATGTC
TCTGCCTGCCATTCAATTTGACCTCATTGAGGAATTTATAATTGCTTCTTCATACTGGAGT
GTATATTCAGAGACAAGTAACATGGACAACTATTGCCACATTCCTCAGTGCTCACTTGG
AATACAGAAATTCCTGGAATAACTCTTGTGACAGAAGACATTGCATTGCCTCTTATGAAG
GTGCTCAGCTTTAAGGGCTACTGGGAAAACTGAACTCCAACCTAGAATATGTTAAGTAC
GCCAAGCCACACTTCCACTATAACAACAGTGTGGTCAGGAGAGAGTGGCACAACCTGATC
TCTGAAGAGGTA
  
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Restriction Sites:	Please inquire
ACCN:	AL834358
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:	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:	AL834358.1 , CAD39023.2
RefSeq Size:	2285 bp
RefSeq ORF:	1035 bp
Locus ID:	54103
Cytogenetics:	7q11.23
Protein Families:	Druggable Genome
Gene Summary:	Accumulation of neurotoxic amyloid-beta is a major hallmark of Alzheimer disease (AD; MIM 104300). Formation of amyloid-beta is catalyzed by gamma-secretase (see PSEN1; MIM 104311), a protease with numerous substrates. PION, or GSAP, selectively increases amyloid-beta production through a mechanism involving its interaction with both gamma-secretase and its substrate, the amyloid-beta precursor protein (APP; MIM 104760) C-terminal fragment (APP-CTF) (He et al., 2010 [PubMed 20811458]).[supplied by OMIM, Nov 2010]