

Product datasheet for **MC222180**

Gsap (NM_175437) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsap (NM_175437) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gsap
Synonyms:	A530088I07Rik; Pion
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222180 representing NM_175437
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTCTGCGGCTGGTCACTCACTTCGATGTGCTGGAGGACGTGCTCCCGAGTCTGCTCACACAGGCGG
CGACAACGGACGAAGGAGACAGAGCAGGTGTTTTAGAAACAACCTATGGGAGCTTACGTGTACTAAACAT
CGAAAGAAATGGAACATTATTTATACCTATAAGGACAATAAGGGAAACGCTGTTTTGGATTATATGAT
TGCCAAACCAGACAGAATGAGCATCTGTACACCTTTGAGAAGGACATGCAAGCTGTCAGTTGTTCACTCA
ACAGTGAGAGAACAGTGTCTGCTGCGAGTTTCATTAGTATACCACAGAGGGAGTAAAGAATGACCTTCA
GCCAGGATCGAAGTGCCTAACTTTGCTGGTAGAAATACACCCTGTTAACAACTGAAAGTTCTGAAAGCA
GTGGATAGCTGTGTTGGGTACAGTTCCTTACCACAAGCTGAAAGTCACTTCTTCCACAGAACCACC
TGCTACTGATCTCAGAAGAGAAATATATTGAGCGGTTTCATATCCAGATCACCAGAGAAGATGGAGACAG
AGTGGTGATTAGAAATTCTAGCCATCTCCAAGAGACAGACTAGCTGAAGACTTTGTTGGGCTCAGTGG
GATCTGTGAGAGCAGAGACTATACTACATTGAACTAAAGGAGTCAAGGAGTATCTTGAAATGCATCCAGT
TTAGGGCAGATGAAAGTTTTAACTTAATGTTTGAATGCCCTTGACATAACGTTAACTGGCTTGAGATT
TAAACTTGTAACCTTTGGATATGACTATCGTCAAGACCGTGAGAAGCTGTGCAATCAGCCTTCTCTCTGC
ATTTTTACCAACCATACAGGGAGTTTGTGTATGTGTTACAGCCCTAAGTCTGACTCACGGGAAGAAATCA
CATATTCAGTGTCTACCTCCATAAAGGATACAGAAAGATCTTCACTGCAGCTCCTGGAAGTGTGACTC
ACAGGTCACAAACGGTGTGACTCACAGGTCACAGACGGCATCGTTTTCTCAACCTTGGCTACTTTGTG
GCTGTTTACTCCCCTGGCCATTTCTTCACTTACTTAACTTACATTCAGCATCCAGACTTGGTCTGCCAGTC
GTTTCTGACAGGAAACAACAAATAGCTGTGTCTACCTCAAGTCCCTTTCAGTCCCTGCCGGGGTCC
CCTGGTTCTGGACTGCTATTCTGGAAAGTCTATAGAGTAACCCCTTGACCAGTCATACTTGTGGCGTTC
CTATGGAACGCCATCTCGACTGTGAGAGAATGGCTGCACTGCACTGTACTATCCTGTAGTCAAGACC
CAGGTTTTCCCGAAGAACAGATTATCCAGTGGATTTCCGAGCATGTCTCTGCTTGCATTATTTGACCT
CATTCAAGAAATTTCTAATTGCTTCTCCTATTGGAGTGTGTATGCAGAGCTGGACGACATGGGCATGCTC
CTACAATACTCCTCTGTGCTGACTTGGAACACAGAAATCCCAGAAATGAAAGTTACGACAGAGGAACTCC
CATTGCCTCTTATGAAGGTCTACGGCTGAAGGGTACTGGGCAAAGTGAACCTCAACCTTGAGTACAT
TAAGTATACAAAACCTCACTTGCATATCACACAGCGTCGTGAGGAGGGAATGGCATAACCTGATCTCT
GAAGAGAGAACGGGCAAAAGGAGATCCACAATGTACGTGAGGAACATTCTTGAAAACGCAATGAAGGTGA
TTGCTAGCATGGAACGAGGACACTGGAGCCAAGATTAATACCATTCTTACAAGGGAAGACCGGCACCA
GAGGCTGCTCATGGGCTTGATGGTGTCTGAGCTAAGAGACCACCTACTGAGACACCTGCAGGGTGTAGAA
AAGAAGAAAATGAACAGATGGTTCTGGACTACATTTCAAACCTGCTGGATCTCATTGGTGTCTGCTGG
AAACCAGTTGGAGGAAACACAGTATGCATCCATTGGTTCTCCACCTCAATAGCCATTGCAGTGTGCAGA
TTTTGAAGTCTTTCATCTCATGACCAGGATTTGGATGTGCTAGCAGTTTGTGTTGCCTCTGCCTCCT
GGTTTCCACTCTCTGCACACGATCCTTGGGGTCCACTGCCTCCCTTTGTACAGCCTTCTGCACTACATTG
ATAACGGAGTGTGCTGCTTACTGAGACCGCGTACAGAGGCTTATGAAAGATCTGGACAATTGAGAGAA
AAATGAACAACCTGAAATTCAGCATCATTGTCCGGCTCCCTCCGTTATTGGCCAGAAGTCTGCCGGCTT
TGGGACCACCCCATGAGTTCCAATATCATTTACGGAACCATGTGGCCCGGCTGCTGAAAACTACAGGA
AAGAGCCTCGGAACTCCATGATTGACAAATCATATTTCCGGTGAATTTCTGCCTCTGAACTACTTCAT
CGAAATTTCTGATGGGCTGGAGTCTCCAACCAAGCACTGTATGGCTTTGAAAGACATGACAATGTGGAC
GCAGAATTTGTAGAGGAAGCTGCTCTGAAACACACCACCATGCTTTTGGGCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_175437
Insert Size: 2577 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).
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:	NM_175437.3 , NP_780646.2
RefSeq Size:	3745 bp
RefSeq ORF:	2577 bp
Locus ID:	212167
UniProt ID:	Q3TCV3
Cytogenetics:	5 A3
Gene Summary:	<p>Regulator of gamma-secretase activity, which specifically activates the production of amyloid-beta protein (amyloid-beta protein 40 and amyloid-beta protein 42), without affecting the cleavage of other gamma-secretase targets such as Notch. The gamma-secretase complex is an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid-beta precursor protein). Specifically promotes the gamma-cleavage of APP CTF-alpha (also named APP-CTF) by the gamma-secretase complex to generate amyloid-beta, while it reduces the epsilon-cleavage of APP CTF-alpha, leading to a low production of AICD.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>