

Product datasheet for **SC331793**

GFAP (NM_001242376) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GFAP (NM_001242376) Human Untagged Clone
Tag: Tag Free
Symbol: GFAP
Synonyms: ALXDRD
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331793 representing NM_001242376.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCCTCAGGGGAGATGATGGTGGGG
GGCCTGGCTCCTGGCCGCGTCTGGGTCTGGCACCCGCTCTCCCTGGCTCGAATGCCCCCTCCACTC
CCGACCCGGTGGATTTCTCCCTGGCTGGGGCACTCAATGCTGGCTTCAAGGAGACCCGGGCCAGTGAG
CGGGCAGAGATGATGGAGCTCAATGACCGCTTTGCCAGCTACATCGAGAAGGTTTCGTTCTGGAACAG
CAAACAAGGCGCTGGCTGCTGAGCTGAACCAGCTGCGGGCCAAGGAGCCACCAAGCTGGCAGACGTC
TACCAGGCTGAGCTGCGAGAGCTGCGGCTGCGGCTCGATCAACTACCGCCAACAGCGCCCGGCTGGAG
GTTGAGAGGGACAATCTGGCACAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAACCTG
AGGCTGGAAGCCGAGAACAACCTGGCTGCCTATAGACAGGAAGCAGATGAAGCCACCCTGGCCCGTCTG
GATCTGGAGAGGAAGATTGAGTCGCTGGAGGAGGAGATCCGGTCTTGAGGAAGATCCACGAGGAGGAG
GTTCCGGAACTCCAGGAGCAGCTGGCCGACAGCAGGTCCATGTGGAGCTTGACGTGGCCAAGCCAGAC
CTACCGCAGCCCTGAAAGAGATCCGCACGCAGTATGAGGCAATGGCGTCCAGCAACATGCATGAAGCC
GAAGAGTGGTACCGCTCCAAGTTGCAGACCTGACAGACGCTGCTGCCGCAACGCGGAGCTGCTCCGC
CAGGCCAAGCACGAAGCCAACGACTACCGGCGCCAGTTGCAGTCCTTGACCTGCGACCTGGAGTCTCTG
CGCGGCACGAACGAGTCCCTGGAGAGGCAGATGCGCGAGCAGGAGGAGCGGCAGCTGCGGGAGGCGGCC
AGTTATCAGGAGGCGCTGGCGCGCTGGAGGAAGAGGGGCAGAGCCTCAAGGACGAGATGGCCCGCCAC
TTGCAGGAGTACCAGGACCTGCTCAATGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAG
CTGCTAGAGGGCGAGGAGAACCAGGATCACCATTCCCGTGCAGACCTTCTCCAACCTGCAGATTCCAGGT
CAGTACAGCAGGGCCTCGTGGGAAGGGCACTGGAGTCTGCCCCCTCCTCCAGGGCCTGTAGGTTGCTC
CAGACTGGGACTGAGGATCAGGGCAAAGGGATCCAGCTCTCCCTGGGGCCTTCGTGACACTGCAGCGC
TCCTAG
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Restriction Sites: SgfI-MluI
ACCN: NM_001242376
Insert Size: 1317 bp



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OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
Components:	<p>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).</p>
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_001242376.1
RefSeq Size:	2193 bp
RefSeq ORF:	1317 bp
Locus ID:	2670
UniProt ID:	P14136
Cytogenetics:	17q21.31
Protein Families:	ES Cell Differentiation/IPS
MW:	50.3 kDa
Gene Summary:	<p>This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (3) differs at the 3' coding region and 3' UTR, compared to variant 1, which results in a protein (isoform 3, also known as isoform kappa) with a shorter and distinct C-terminus when compared to isoform 1.</p>