

Product datasheet for **SC325916**

GFAP (NM_001131019) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFAP (NM_001131019) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFAP
Synonyms:	ALXDRD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325916 representing NM_001131019. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCCTCAGGGGAGATGATGGTGGGG
GGCCTGGCTCCTGGCCGCGCTGGGTCTGGCACCCGCTCCTCCCTGGCTCGAATGCCCCCTCCACTC
CCGACCCGGTGGATTTCTCCCTGGCTGGGGCACTCAATGCTGGCTTCAAGGAGACCCGGGCCAGTGAG
CGGGCAGAGATGATGGAGCTCAATGACCGCTTTGCCAGCTACATCGAGAAGGTTTCGTTCTGGAACAG
CAAAACAAGGCGCTGGCTGCTGAGCTGAACCAGCTGCGGGCCAAGGAGCCCAAGCTGGCAGACGTC
TACCAGGCTGAGCTGCGAGAGCTGCGGCTGCGGCTCGATCAACTACCGCCAACAGCGCCCGGCTGGAG
GTTGAGAGGGACAATCTGGCACAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAACCTG
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GAAGAGTGGTACCGCTCCAAGTTGCAGACCTGACAGACGCTGCTGCCGCAACGCGGAGCTGCTCCGC
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TTGCAGGAGTACCAGGACCTGCTCAATGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAG
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GGCAAAAGCACCAAGACGGGGAAAATCACAAGGTCACAAGATATCTCAAAGCCTCACAATACGAGTT
ATACCAATACAGGCTCACCAGATTGTAATGGAACGCCGCGGCTCGCGGTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001131019
Insert Size:	1296 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:	<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_001131019.2
RefSeq Size:	1839 bp
RefSeq ORF:	1296 bp
Locus ID:	2670
UniProt ID:	P14136
Cytogenetics:	17q21.31
Protein Families:	ES Cell Differentiation/IPS
MW:	49.5 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 (2) differs at the 3' coding region and 3' UTR, compared to variant 1, which results in a protein (isoform 2, also known as isoform epsilon) with a shorter and distinct C-terminus when compared to isoform 1.</p>