

Product datasheet for SC118873

GFAP (NM_002055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFAP (NM_002055) Human Untagged Clone
Tag:	Tag Free
Symbol:	GFAP
Synonyms:	ALXDRD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118873 sequence for NM_002055 edited (data generated by NextGen Sequencing)

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ATGGAGAGGAGAGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCCTCAGGGGAGATG
ATGGTGGGGGGCCTGGCTCCTGGCCGCGTCTGGGTCTGGCACCCGCTCTCCCTGGCT
CGAATGCCCCCTCCACTCCCAACCCGGGTGGATTCTCCCTGGCTGGGGCACTCAATGCT
GGCTTCAAGGAGACCCGGCCAGTGAAGCGGCGAGAGATGATGGAGCTCAATGACCGCTTT
GCCAGCTACATCGAGAAGGTTTCGCTTCTGGAACAGCAAAACAAGGCGCTGGCTGCTGAG
CTGAACCAGCTGCGGGCAAGGAGCCACCAAGCTGGCAGACGTCTACCAGGCTGAGCTG
CGAGAGCTGCGGGCTGCGGCTCGATCAACTCACCGCCAACAGCGCCCGGCTGGAGTTGAG
AGGACAATCTGGCACAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAAC
CTGAGGCTGGAAGCCGAGAACAACCTGGCTGCCTATAGACAGGAAGCAGATGAAGCCACC
CTGGCCCGTCTGGATCTGGAGAGGAAGATTGAGTCGCTGGAGGAGGAGATCCGGTTCTTG
AGGAAGATCCACGAGGAGGAGGTTTCGGGAACCTCCAGGAGCAGCTGGCCCGACAGCAGGTC
CATGTGGAGCTTGACGTGGCCAAGCCAGACCTCACCGCAGCCCTGAAAGAGATCCGCACG
CAGTATGAGGCAATGGCGTCCAGCAACATGCATGAAGCCGAAGAGTGGTACCGCTCCAAG
TTTGCAGACCTGACAGACGCTGCTGCCCGCAACGCGGAGCTGCTCCGCCAGGCCAAGCAC
GAAGCCAACGACTACCGGCGCCAGTTGCAGTCTTGACCTGCGACCTGGAGTCTCTGCGC
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ATCGAGATCGCCACCTACAGGAAGCTGCTAGAGGGCGAGGAGAACC GGATCACCATTCCC
GTGCAGACCTTCTCCAACCTGCAGATTCGAGAAACCAGCCTGGACACCAAGTCTGTGTCA
GAAGGCCACCTCAAGAGGAACATCGTGGTGAAGACCGTGGAGATGCGGGATGGAGAGGTC
ATTAAGGAGTCCAAGCAGGAGCACAAGGATGTGATGTGA

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Clone variation with respect to NM_002055.4
141 g=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002055 unedited GCCCCGTTGCCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTC ATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGG CACGAGGGCAGGATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCCTACGTCTCC TCAGGGGAGATGATGGTGGGGGGCTGGCTCCTGGCCGCCGTCTGGGTCTGGCACCCGC CTCTCCCTGGCTCGAATGCCCTCCACTCCCAACCCGGGTGGATTTCTCCCTGGCTGGG GCACTCAATGCTGGCTTCAAGGAGACCCGGGCCAGTGAGCGGGCAGAGATGATGGAGCTC AATGACCGCTTTGCCAGCTACATCGAGAAGGTTGCTTCCCTGGAACAGCAAAACAAGGCG CTGGCTGCTGAGCTGAACCAGCTGCGGGCCAAGGAGCCACCAAGCTGGCAGACGTCTAC CAGGCTGAGCTGCGAGAGCTGCGGCTGCGGCTCGATCAACTACCGCCAACAGCGCCCGG CTGGAGGTTGAGAGGGACAATCTGGCACAGGACCTGGCCACTGTGAGGCAGAAGCTCCAG GATGAAACCAACCTGAGGCTGGAAGCCGAGAACAACCTGGCTGCCTATAGACAGGAAGCA GATGAAGCCACCCTGGCCGTCTGGATCTGGAGAGGAAGATTGAGTCGCTGGAGGAGGAG ATCCGGTCTTGAGGAAGATCCACGANGAGGGAGGTCGGNAACTNCAGNAGCAGCTGGCC CGACAGCNAGTCCATGTGGAGCTTGACGTGGCCAGCCAGACCTCACGCAGCCCTGAAAGA GATCGCACGCAGTATGAGGGCATGGCGTCCAGCACATGCATGAAGCCCGAGAGTGTACCG CTCCCAGTTGCAGACCTGACGACGCTGCTGNCCGCACGCGNAGCTGNTCCGCCAGGCCAG CCACGAGCCACGACTACCGNGCCAGNTGCAGTCCTTGACTGCGACCTGNNATCTCTGCNC GGNACAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002055 unedited TTGGTCGCTGCCCAATTTANATCGAGTTTTTTTTTTTTTTTTTTTGGGGCGCAGCATTT GTCTTTATTTTTCTCAGCGACTAAAGGCAGCAGCAGTGCCTGAAGATTAGCAGCAGCA GCAGCAGCAGGTGGCAGGAAGGAGTGGAGGGAAAGGACACCAAGTCTGGGGAGAGGGAA GGACCCTTCTTCGGCCTTAGAGGGGAGAGGAGAACCTGAAGTGGGCCCTCCCAGTCCCA TCTCTGGGCACAGATCCCACCAGTCTGCTCACCAGTCTGCTCAGTCAAAGCAGAGTGGGT GCACTGGGGTGGACGTGTGAGCCCTGAGCACCCGGCCTCCAGGCTGCAGGAATATGAGCC AGTGTCTTCACTTTGCTCGTGCCTCAGTTTTACAATTGTAATAAGGGCACTACCTAGAA TACTGGGTACATTTTGTGTGTGAGTAAGAAGGGACCGCAAGAGGCCCTTGGCTTAGGGAA AAGCAGCCGGTCACTATGGGGTGGAGAGGTCAGACGTGTGGCAGTGGCTTACTGGGGTT AAGAAGCAGCAGTCCCAGGGGCTCAGAGGCTGGGGCGCCCTGGTATGACACAGCAAGGAA GAGGCCTTTAGAAATGGGACAAAGTCATGCCCTGCCCCATGGATACATCCCCTTTCTCT CCTGTTTCAGCATCTTCAAGAGGATGAGTCACTTCTTAATTCCCACAATCCAGAGGCCA AGTGCACTGGTCACCCACAACCCCTACTTGTATGCCTAGCGCCATCCCAATTGCCTCCT CCTCCATCTTACCAGCGTCCCCTCCAGTCTGCACGGGGCAGTCTCCTGGGCTTGACCT CTCTGTACCCACAGCTGGGGGCCAGGCAGCCCCCTCTATCCCTCCCAGCACTNATCCCT CTNCACGTACACCACAGATCCCCCAGTGTGAGAAATCAAGCTCCACCTGCCACACGC TGCCACAGATGGCATC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002055
Insert Size:	3075 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:

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_002055.2](#), [NP_002046.1](#)

RefSeq Size: 3035 bp

RefSeq ORF: 1299 bp

Locus ID: 2670

UniProt ID: [P14136](#)

Cytogenetics: 17q21.31

Domains: filament, filament_head

Protein Families: ES Cell Differentiation/IPS

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes a predominant isoform (1, also known as alpha).