

Product datasheet for **RG225707**

GFAP (NM_001131019) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GFAP (NM_001131019) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GFAP
Synonyms:	ALXDRD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225707 representing NM_001131019 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGGAGACGCATCACCTCCGCTGCTCGCCGCTCTACGTCTCCTCAGGGGAGATGATGGTGGGGG
GCCTGGCTCCTGGCCGCGTCTGGGTCTGGCACCCGCTCTCCCTGGCTCGAATGCCCCCTCCACTCCC
GACCCGGGTGGATTTCTCCCTGGCTGGGGCACTCAATGCTGGCTTCAAGGAGACCCGGCCAGTGAGCGG
GCAGAGATGATGGAGCTCAATGACCGCTTGGCAGCTACATCGAGAAGGTTGCTTCTGGAACAGCAAA
ACAAGGCGCTGGCTGCTGAGCTGAACAGCTGCGGGCCAAGGAGCCACCAAGCTGGCAGACGTCTACCA
GGCTGAGCTGCGAGAGCTGCGGCTGCGGCTCGATCAACTACCGCCAACAGCGCCCGGCTGGAGGTTGAG
AGGGACAATCTGGCACAGGACCTGGCCACTGTGAGGCAGAAGCTCCAGGATGAAACCAACCTGAGGCTGG
AAGCCGAGAACAACCTGGCTGCCTATAGACAGGAAGCAGATGAAGCCACCCTGGCCCGTCTGGATCTGGA
GAGGAAGATTGAGTCGCTGGAGGAGGAGATCCGGTTCTTGAGGAAGATCCACGAGGAGGAGGTTCCGGAA
CTCCAGGAGCAGCTGGCCCGACAGCAGGTCCATGTGGAGCTTGACGTGGCCAAGCCAGACCTCACCGCAG
CCCTGAAAGAGATCCGCACGCAGTATGAGGCAATGGCGTCCAGCAACATGCATGAAGCCGAAGAGTGGTA
CCGCTCCAAGTTTGACAGACCTGACAGACGCTGCTGCCCGCAACCGGAGCTGCTCCGCCAGGCCAAGCAC
GAAGCCAAAGACTACCGGCGCCAGTTGACGTCTTACCTGCGACCTGGAGTCTCTCGCGGCACGCAAC
AGTCCCTGGAGAGGCAGATGCGCGAGCAGGAGGAGCGGCACGTGCGGGAGGCGGCCAGTTATCAGGAGGC
GCTGGCGCGGCTGGAGGAAGAGGGGCAGAGCCTCAAGGACGAGATGGCCCGCACTTGCAGGAGTACCAG
GACCTGCTCAATGTCAAGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTAGAGGGCGAGG
AGAACCGGATCACCAATCCCGTGCAGACCTTCTCCAACCTGCAGATTCGAGGGGGCAAAGCACCAAGA
CGGGGAAAATCACAAGGTCACAAGATATCTCAAAAGCCTCACAATACGAGTTATACCAATACAGGCTCAC
CAGATTGTAATGGAACGCCCGGCTCGCGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225707 representing NM_001131019
Red=Cloning site Green=Tags(s)

MERRRITSAARRSYVSSGEMMVGGLAPGRRLGPGTRL SLARMPPLPTRVDFSLAGALNAGFKETRASER
 AEMMELNDRFASYIEKVRFLQQNKALAAELNQLRAKEPTKLADVYQAE LRELRLDQLTANSARLEVE
 RDNLAQDLATVRQKLQDETNLRLAEAENLAAYRQEADATLARLDLKERKIESLEEEIRFLRKIHEEEVRE
 LQEQLARQQVHVELDVAKPDLTAAALKEIRTQYEAMASSNMHEAEWYRSKFADLTDAARNALLRQAKH
 EANDYRRQLQSLTCDLESLRGTNESLERQMRQEERHVREAASYQEALARLEEEGQSLKDEMARHLQEYQ
 DLLNVKLALDIEIATYRKLLEGEENRITIPVQTF SNLQIRGGKSTKDG ENHKVTRYLKS LTIRVIPIQAH
 QIVNGTPPARG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001131019

ORF Size: 1293 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001131019.3](#)

RefSeq Size: 1837 bp

RefSeq ORF: 1296 bp

Locus ID: 2670

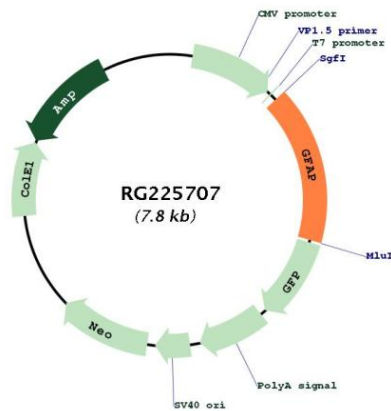
UniProt ID: [P14136](#)

Cytogenetics: 17q21.31

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]

Product images:



Circular map for RG225707