

Product datasheet for **MG226731**

Gfap (NM_010277) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfap (NM_010277) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gfap
Synonyms:	A1836096
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226731 representing NM_010277 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGGAGACGCATCACCTCTGCGCGCCGCTCCTATGCCTCCGAGACGGTGGTCAGGGGCTCGGT
CTAGTCGACAACGGGTACCATGCCACGCTTCTCCTTGCTCGAATGACTCCTCCACTCCCTGCCAGGGT
GGACTTCTCCCTGGCCGGGGCGCTCAATGCTGGCTTCAAGGAGACACGGGCGAGCGAGCGTGCAGAGATG
ATGGAGCTCAATGACCGCTTTGCTAGCTACATCGAGAAGGTCGGCTTCTGGAACAGCAAAACAAGCGC
TGGCAGCTGAACGAACAGCTTCGAGCCAAGGAGCCACAAACTGGCTGATGTCTACCAGGCGGAGCT
TCGGGAGCTGCGGCTGCGGCTGGACCAGCTTACGGCCAACAGTGCCTGGCTGGAGGTGGAGAGGGACAAC
TTTGACACAGGACCTCGGCACCCTGAGGCAGAAGCTCCAAGATGAAACCAACCTGAGGCTGGAGGCAGAGA
ACAACCTGGCTGCGTATAGACAGGAGGCAGATGAAGCCACCCTGGCTCGTGTGGATTTGGAGAGAAAAGGT
TGAATCGCTGGAGGAGGAGATCCAGTTCCTAAGGAAGATCTATGAGGAGGAAGTTCGAGAACTCCGGGAG
CAGCTGGCCCAACAGCAGGTCCACGTGGAGATGGATGTGGCAAGCCAGACCTCACAGCGGCCCTGAGAG
AGATTCGCACTCAATACGAGGCAGTGGCCACCAGTAACATGCAAGAGACAGAGGAGTGGTATCGGTCTAA
GTTTGCAGACCTCACAGACGCTGCGTCCCGCAACGCAGAGCTGCTCCGCCAAGCCAAGCAGCAAGCTAAC
GACTATCGCCGCAACTGCAGGCTTGACCTGCGATCTGGAGTCCCTGCGCGGCACGAACGAGTCCCTAG
AGCGGCAAAATGCGCGAACAGGAAGAGCGCCATGCGCGGGAGTCGGCCAGTTACCAGGAGGCACTTGCTCG
GCTGGAGGAGGAGGGCCAAAGCCTCAAGGAGGAGATGGCCCGCCACCTGCAGGAGTACCAGGATCTACTC
AACGTTAAGTAGCCCTGGACATCGAGATCGCCACCTACAGGAAATGCTGGAGGGCGAAGAAAACCGCA
TCACCATTCCTGTACAGACTTTCTCCAACCTCCAGATCCGAGAAACCAGCCTGGACACCAATCCGTGTC
AGAAGGCCACCTCAAGAGGAACATCGTGGTAAAGACTGTGGAGATGCGGGATGGTGGAGTTCATTAAGGAC
TCGAAGCAGGAGCACAAGGACGTGGTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226731 representing NM_010277
Red=Cloning site Green=Tags(s)

MERRRITSARRSYASETVVVRGLGPSRQLGTMPRFSLSRMTPPLPARVDFSLAGALNAGFKETRASERAEM
 MELNDRFASYIEKVRFLQONKALAAELNQLRAKEPTKLADVVYQAELELRLRLDQLTANSARLEVERDN
 FAQDLGLTRQKLQDETNLRLEAENNLAAAYRQEADATLARVDLKERKVESLEEEIQFLRKIYEEEVRELRE
 QLAQQQVHVEMDVAKPDLTAALREIRTQYEAVATSNMQETE EWYRSKFADL TDAASRNAELLRQAKHEAN
 DYRRQLQAL TCDLES LRGTNESLERQMREQEERHARESASYQEALARLEEEGQSLKEEMARHLQEYQDLL
 NVKLALDIEIATYRKLLGEENRITIPVQTF SNLQIRETSLDTKSVSEGH LKRNI VVKTVEMRDGEVIKD
 SKQEHKDVVM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_010277

ORF Size: 1290 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_010277.3](#), [NP_034407.2](#)

RefSeq Size: 2733 bp

RefSeq ORF: 1293 bp

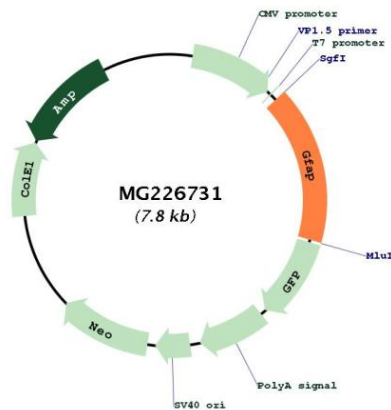
Locus ID: 14580

UniProt ID: [P03995](#)

Cytogenetics: 11 66.48 cM

Gene Summary: GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226731