

Product datasheet for **RG200196**

FAIM2 (NM_012306) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAIM2 (NM_012306) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAIM2
Synonyms:	LFG; LFG2; NGP35; NMP35; TMBIM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200196 representing NM_012306 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCAGGGAAAGCTCTCCGTGGCTAACAAGGCCCTGGGACCGAGGGGCAGCAGCAGGTGCATGGCG
AGAAGAAGGAGGCTCCAGCAGTGCCTCAGCCCCACCCTCCTATGAGGAAGCCACCTCTGGGAGGGGAT
GAAGGCAGGGGCTTCCCCCAGCCCCACAGCGGTGCCTCTCCACCCTAGCTGGGCCTATGTGGACCCC
AGCAGCAGCTCCAGCTATGACAACGGTTTCCCCACGGAGACCATGAGCTCTCACCACCTTTCAGCTGGG
ATGACCAGAAAGTTCGTCGAGTCTTTGTCAGAAAGGTCTACACCATCCTGCTGATTGCTGCTGGTGAC
CTTGGCTGTCGTGGCTCTTTACTTTCTGTGACCCTGTCAAGGACTATGTCCAGGCCAAGCCAGGCTGG
TACTGGGCATCCTATGCTGTGTTCTTTGCAACCTACCTGACCCTGGCTTGCTGTTCTGGACCCAGGAGGC
ATTTCCCCTGGAACCTGATTCTCCTGACCGTCTTTACCCTGTCCATGGCCTACCTCACTGGGATGCTGTC
CAGCTACTACAACACCACCTCCGTGCTGCTGTGCCTGGGCATCACGGCCCTTGTCTGCCTCTCAGTCACC
GTCTTCAGCTTCCAGACCAAGTTCGACTTACCTCCTGCCAGGGCGTGTCTTCGTGCTTCTCATGACTC
TTTTCTTCAGCGGACTCATCCTGGCCATCCTCCTACCCTTCCAATATGTGCCCTGGCTCCATGCAGTTTA
TGCAGCACTGGGAGCGGGTGTATTTACATTGTTCTGGCACTTGACACCCAGTTGCTGATGGGTAACCGA
CGCCACTCGCTGAGCCCTGAGGAGTATATTTTTGGAGCCCTCAACATTTACCTAGACATCATCTATATCT
TCACCTTCTTCTGCAGCTTTTTGGCACTAACCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200196 representing NM_012306
Red=Cloning site Green=Tags(s)

MTQGKLSVANKAPGTEGQQQVHGEKKEAPAVPSAPPSYEEATSGEGMKAGAFPPAPTAVPLHPSWAYVDP
 SSSSSYDNGFPTGDHELFTTFSWDDQKVRVRFVRKVVYILLIQLLVTLAVVALFTFCDPVKDYVQANPGW
 YWASYAVFFATYLTACCSSGPRRHFPWNLLITVFTLSMAYLTGMLSSYNTTSSVLLCLGITALVCLSVT
 VFSFQTKFDFTSCQGVLFVLLMTLFFSGLILAILLPFQYVYPWLHAYVYAALGAGVTLFLALDQLLMGNR
 RHLSPEEYIFGALNIYLDIIYIFTFLLQLFGTNR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_012306

ORF Size: 948 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_012306.4](#)

RefSeq Size: 4703 bp

RefSeq ORF: 951 bp

Locus ID: 23017

UniProt ID: [Q9BWQ8](#)

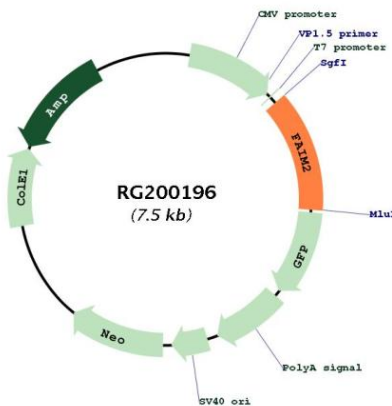
Cytogenetics: 12q13.12

Domains: UPF0005

Protein Families: Transmembrane

Gene Summary: Antiapoptotic protein which protects cells uniquely from Fas-induced apoptosis. Regulates Fas-mediated apoptosis in neurons by interfering with caspase-8 activation. May play a role in cerebellar development by affecting cerebellar size, internal granular layer (IGL) thickness, and Purkinje cell (PC) development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200196