

Product datasheet for **MG212951**

Igsf9b (NM_001033323) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Igsf9b (NM_001033323) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Igsf9b
Synonyms:	Gm508; mKIAA1030
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG212951 representing NM_001033323
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTGGTATGTGCCACTTTGATAGCAAGTGTGATCAGCACCCGAGGTCTTGTGGTCAAGGTGCC
 ACGGCCTGCGAGAGGAACCCGAGTTTGTGACTGCTCGAGCCGGCGAAGGTGTGGTTCTGCGATGCGACGT
 AATCCACCCAGTGACAGGACAGCCCCACCCTATGTTGTAGAGTGGTTCAAGTTTGGGGTCCCCATCCCT
 ATCTTCATCAAGTTGGCTACTATCCCCACATGTGGACCCTGAGTATGCAGGCCGGCCAGTCTTCATG
 AATAAGCATCTCTGCGGCTGGAGCAGGTGCGCTCTGAGGACCAGGGTTGGTACGAGTGCAAGGTA
 GCTGGACCAGCAGTATGACACATTCCACAACGGCAGCTGGGTCCATCTCACCATTAAACGCCCTCCACC
 TTTACAGAAACACCCCCCAGTACATCGAGGCCAAGGAAGGTGGAAGTATTACCATGACGTGTA
 TCGGGAACCCTAAGCCCATCGTACCTGGCTCAAGGAAGGGACCCTCCTCGGTGCTAGTGCAAGTATCA
 GGTGAGTGACGGTAGCCTAACGGTGACGTGAGTCAAGTCAAGGAGGACAGAGGCCCTATACGTGTCGAGCA
 TATAGCATCCAGGGTGAAGCTGTGCACACAACCCATCTGCTTGTCAAGGGCCTCCCTTCATTGTTCC
 CTCTGAGAACATCACCGTCAACATCTCCAGGATGCTCTGCTTACCTGCAGGGCAGAGGCGTATCCCGG
 CAACCTCACCTACACCTGGTACTGGCAGGATGAGAACGCTACTTCCAGAATGACCTGAAGCTAAGGGT
 CGGATCCTGATTGATGGGACACTGATCATCTTCCGAGTGAAGCCAGAGGATGCTGGGAAGTATACCTGT
 TCCCTAGCAACAGCCTGGGGCGCTCCCCCTCTGCCTCAGCATACCTGACTGTGCAAGTACCCAGCCG
 CCTCAACATGCCCCGTGAATTTATGTGCCCGTGGGAATCCATGGCTATATCCGCTGTCTGTGGATGCA
 GAGCCACCTGCTACTGTGGTGAAGTGAATAAAGGATGGCCGGCCCTGCAGGTAGAGAAGAACTTGGGT
 GGACCTTGATGGAGGATGGCTCTATTGCAATTGAGGAGGCCACAGAGGAGGCTCTTGGCACTTACACCTG
 TGTGCCTTACAACACCTTGGGGACTATGGGCCAGTCTGCCCTGCACGGCTTGTCTGAAGGACCCCG
 TACTTCACGGTGCTACCAGGCTGGGAATACAGGCAGGAGGCTGGCCGGGAGCTGCTCATTCCCTGTGCA
 GCTGCAGGGGACCCCTTCCCTGTGATCACCTGGAGGAAGGTAGGGAAGCCAGCAGAAGCAAGCACAACGC
 ACTGCCAGCGGGAGTCTCCAGTTTCGTGCCCTGAGTAAGGAGGACCACGGGGAGTGGGAATGTGTTGCC
 ACCAATGTGGTCAACAAGCATCACTGCCAGCACCCACCTCACTGTCATCGGCACCAGTCCCCATGCCCCAG
 GCAGTGTCCGGTCCATGTCTCCATGACAACGCAACGTCCTGGGAGCCGGGCTATGATGGAGGCTA
 CGAGCAGACATTCTCAGTTTGGATGAAGCGGGCTCAGTTTGGGCCCCACGACTGGCTGTCCTTGTGCA
 CCACCGGGCCCCAGCTGGTTGCTGGTAGACAGCCTGGAGCCTGAGACCGCATACAGTTCAGTGTCTGG
 CCCAGAACAGGCTGGGAACAGCGCCTTCAAGTGAAGTGGTCACTGTGAACACTTTAGCATTCCCTGTAC
 AACTCCAGAACCCTGGTGTGGTGACCCACCAAGGTGCCTCACAGCCAACCGGACCCAGCAGGGTGTG
 CTCTGTCTGGTCCCACCTGCCAACCACAGCTTCCCCATCGACCGCTATATCATGGAGTTCAGGTTG
 GGGAGCGCTGGGAGATGCTGGATGACGCCATTCCAGGCACTGACGGAGATTTTTTTGCCAAGGATCTGTC
 ACAGGATACCTGGTATGAATCCGGTTTTGGCTGTGATGCAGGATCTGATCAGCGAGCCCAACATC
 GCCGGTGTCTCCAGCACAGGTAATTTGGGTTCCAAGATCGTCAACAGCAACCAGAAAGCAAGCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG212951 representing NM_001033323
 Red=Cloning site Green=Tags(s)

MIWYVATLIASVISTRGLVAQGAHGLREEPEFVTARAGEGVVLRCDVIHPVTGQPPPYVVEWFKFGVPIPI
 IFIKFGYPPHVDPEYAGRASLHDKASLRLEQVRSEDQGWYECKVLMDDQYDTFHNGSWVHLTINAPPT
 FTETPPQYIEAKEGGSITMTCTAFGNPKPIVTLWKEGTLGASAKYQVSDGSLT VTSVSRREDRGAYTCRA
 YSIQGEAVHTTHLLVQGPPFIVSPPENITVNISQDALLTCRAEAYPGNLTYTWYWDENVYFQNDLKLRV
 RILIDGTLIIIFRVKPEDAGKYTCVPSNSLGRSPSASAYLTVQYPARVLNMPPIVYVPVGIHGYIRCPVDA
 EPPATVVKWVKDGRPLQVEKNLGWTLMEDGSIRIEEATEALGTYTCVPYNTLGTMGQSAPARLVLDKPP
 YFTVLPGWEYRQEAGRELLIPCAAAGDPFPVITWRKVGKPSRSKHNA LPSGSLQFRALSKEDHGEWECVA
 TNVVTSTITASTHLTVIGTSPHAPGSRVHVSMTTANVSWEPGYDGGYEQTF SVWMKRAQFGPHDWLSLSV
 PPGPSWLLVDSLEPETAYQF SVLAQNRLGTSAFSEVVTVNTLAFPVTTPEPLVLVTPRCLTANRTQQGV
 LLSWLPPANHSFPIDRYIMEFRVGERWEMLDIPAIGTDGDFFAKDL SQDTWYEFRLAVMQDLISEPSNI
 AGVSSTGLGSKIVKQPESKH

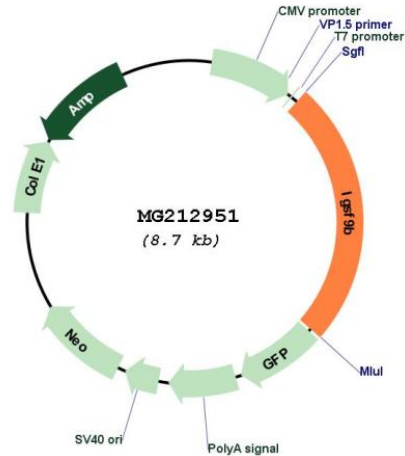
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001033323

ORF Size: 2166 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001033323.3](#), [NP_001028495.2](#)

RefSeq Size: 2857 bp

RefSeq ORF: 2169 bp

Locus ID: 235086

Cytogenetics: 9 A4

Gene Summary: Transmembrane protein which is abundantly expressed in interneurons, where it may regulate inhibitory synapse development (By similarity). May mediate homophilic cell adhesion (PubMed:23751499).[UniProtKB/Swiss-Prot Function]