

Product datasheet for **MG214750**

Fam166b (NM_177377) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Fam166b
Synonyms:	4833436C18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214750 representing NM_177377
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGTGGTCAACACTTCCATCCCAGGGCTCAGCGGCGAGAATCCGCATTATATTCCAGGGTACACCG
GACACTGCCCGCTACTTCGGTTCAGCATGGGCCAGACCTATGGGCAGGTGACTGGTCAGCTACTCCGAGG
CCCTCCTGGTCTAGCCTGGCCTCCTGCCACCGCACACTTCTGCCTCCCATCCAGTCTCCAAGATCTCCT
GTGATCTCCAAGGGGAGGCTGCCTCCAGGCGCGGGCATGAAAGGCTCAGCTCCAGCATAATCCCTGGGT
ATACAGGTTTTATACCACGGGCACAGTTCATTTTGCCAAGAAGTCAACAGGTTGGGCTGAAGCTAT
GAGTGAATTTACAGGAAGGCACGGGAGCAAGAGAGCCATCAACTGCCAGAGGAGCAAGGGAGAGAGA
GAAGTGAAGAAGACCAGCTGCGGGAGGCAGAGAGCCACCGCTGAAGCAGGAGTTGGCACATGCTTCCC
CCTACTCCATGGATGATACAGATCCCCACAAGTTCTTCATGTGAGGTGAGAGGAAGTGGTAGCAACCAA
AGGCGAGGGGAGACCGCAGGACGTCTTACTCAGCATCTCCCCACCCAGGTTTACGGGCTATGTGC
CCCGTCCCCGCTTCTCTTTGGCTCCAGCTTCCCTGTGCTTACCAACAGGCATTGCAGGAATTTGGGCA
GATGTGCTCACGGGGCCGGGCGCACAAAGACCCAAACCTCTCTCCCCACTTCCCAGGCCACGTTTCAG
AATCTGGGTCTCCTACCTCACTACGGAGGCTACGTGCCAGGTTAGAAGACCCGTGAGGGGCTCCGGGAA
CTGCGGTGTGTGCGGGTGGGGGTGCTTTGGCAACGGGAATTAACAGACAGGAGAGATGTCCGACCC
TGGGATTTAGCTTTAGAGAGGAAACTCTGAGGCAGTTCAAGTGGGAGTTGGGAGCAGATTTAAAGGGCA
GTTTGGAGGTCGACGCAACTGGCTTTTTCATGCCTCTGGCTATATACATGTCAGACTCTTGGCCACGCA
GGATAAGTTCAGTTTGGCGGTACATTTGGGCATCTACCCATGATGCTCTGGCCTCAGCATTACTC
AGAAACAGCTCCCCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



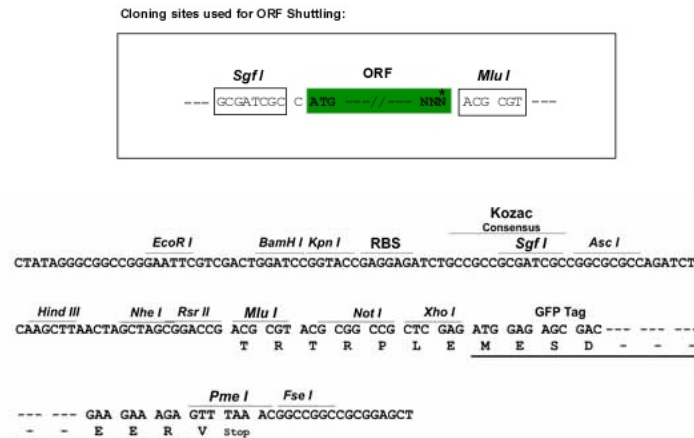
Protein Sequence: >MG214750 representing NM_177377
 Red=Cloning site Green=Tags(s)

MAVVNTSIPGLSGENPHYIPGYTGHCPLLRF SMGQTYGQVTGQLLRGPPGLAWPPAHRLLPPIQSPRSP
 VISKGRLLPRRGHERLSSSIIPGYTGFI PRAQFIFAKNCNQVWAEAMSEFTRRHGEQESHQLPDGAKGER
 EVEEDQLREAEPLKQELAHASPYSMDDTPHKFFMSEGERKWVATKGEGRPDVLTQHLPHQVSRAMC
 PVPASSLAPASLCLPTRHCRNLGRCAHGAGRTRTPNLSPHFPGPRFRIWVSYLTTEATCQVRRAREGLRE
 LRCVCGWGLWQRELTDTERCPTLGF SFREETLRQFSGELGADFGQGGSTQLAFSCLWL YTCQTLGHA
 GYKFQFGGTFGHLTHDALGLSITQKQLPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177377

ORF Size: 1137 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177377.5](#), [NP_796351.2](#)

RefSeq Size: 1348 bp

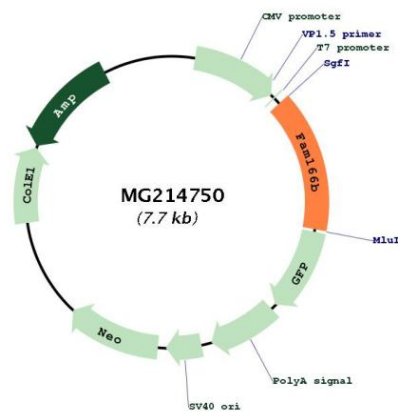
RefSeq ORF: 1140 bp

Locus ID: 329831

UniProt ID: [A2AIP0](#)

Cytogenetics: 4 A5

Product images:



Circular map for MG214750