

Product datasheet for **MG214785**

Fam50a (NM_138607) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam50a (NM_138607) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam50a
Synonyms:	D0HXS9928E; XAP-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG214785 representing NM_138607, codon optimized.
 Due to the complexity of NM_138607, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCAGTACAAAGGCGCAGCTAGCGAGGCCGGCCGCGCCATGCACTTGATGAAAAAGCGGGAGAAAC
 AAAGGGAGCAAATGGAACAGATGAAGCAAAGAATCGCAGAGGAGAATATCATGAAGTCAAATATCGATAA
 AAAATTTCTGCGCACTATGACGCAGTGGAGGCTGAACGAAGAGTAGTACAGTGGCCTGGTCACGCTG
 AACGACATGAAAGCCAAGCAGGAGGCTCTCGTCAAGGAACGCGAAAAACAGCTGGCTAAAAAGAGCAGA
 GCAAAGAAGTGCAGCTTAAACTGGAAAAGCTGAGGGAGAAAGAACGGAAAAAGGAGGCTAAGCGAAAGAT
 TAGCTCACTTTCCTTCACTCTTGAGGAGGAGGAAGAGGGAGTGGAGGAAGAGGAGGAAATGGCAATGTAT
 GAAGAGGAGCTGGAAAGAGAGGAGATCACCAACAAAAAGAAAAGCTGGGCAAGAACCCGGATGTGGACA
 CCTCCTTCTCCCGACCGAGACAGAGAAGAGGAGGAGAACCGCCTTAGAGAGGAGTTGAGGCAGGAGTG
 GGAAGCCAAGCAAGAAAAGATCAAAAGCGAGGAAATCGAAATCACTTCTCTTATTGGGACGGCAGTGGC
 CACCGCCGACAGTCAAATGAAAAGGGCAACACCATGCAGCAGTTCCTGCAAAAGGCCTTGGAGATAT
 TGAGAAAAGGACTTCTCTGAACCTAGATCAGCAGGAGTGGAGCAGCTGATGTATATTAAGGAGGATCTGAT
 CATTCCCATCATCACAGCTTTTACGATTTTATCGTTACAAAAGCTCGCGGAAGAGCGGACCCCTTTTC
 AACTTCGACGTGCACGATGATGTGCGCCTCTGAGTGACGCGACCGTTGAGAAGGACGAGTCAACATGCCG
 GAAAAGTTGTGCTGAGGTCTTGGTACGAGAAAAACAAGCATATCTTTCCTGCTTCAAGGTGGGAACCTTA
 CGACCCGAAAAGAAATGGGATAAGTACACAATTCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG214785 representing NM_138607
 Red=Cloning site Green=Tags(s)

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAELKSSTVGLVTL
 NDMKAKQEALVKEREKQLAKKEQSKELQLKLEKLEKERKKEAKRKISSLSFTLEEEEGVEEEEMAMY
 EEELEREEITTKKKKLGNPDVDTSLPDRDREEEENRLEELRQEWAKQEKIKSEEIEITFSYWDGSG
 HRRTVKMKKGNTMQFLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHHSFYDFIVTKARGKSGPLF
 NFDVHDDVRLLSDATVEKDESHAGKVVLRSWYEKKNKHIFPASRWEPEYDPEKKWDKYTIR

TRTRPLE - GFP Tag - V

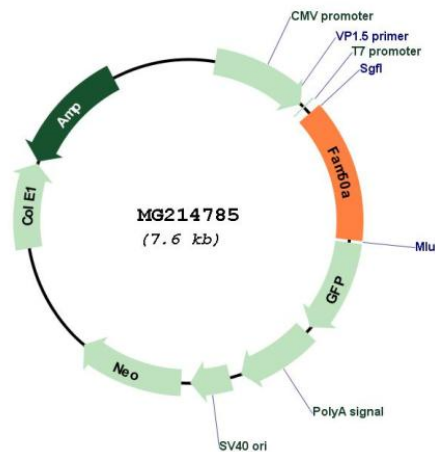
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_138607

ORF Size: 1017 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_138607.3](#), [NP_613073.2](#)

RefSeq Size: 1383 bp

RefSeq ORF: 1020 bp

Locus ID: 108160

UniProt ID: [Q9WV03](#)

Cytogenetics: X A7.3

Gene Summary: May be a DNA-binding protein or transcriptional factor.[UniProtKB/Swiss-Prot Function]