

Product datasheet for MC207646

Fam45a (NM_026437) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam45a (NM_026437) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fam45a
Synonyms:	1810055E12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207646 representing NM_026437 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGCGGTTGTGGCAATGGACACCCAGCTGATGCTCGGAGTCGGGCTGATCGAAAAGGACTCTAATG
 GAGAAGCCCTGTGGGTGTGGTGTATCCTTCCACGACAGCCTCACTAAGGAATCTGCTGCTCCGAAATG
 CTGCCTAACTGATGAAAACAACTTCTCCACCCTTTCGTCTTTGGTCAGTACAGAAGAACATGGTTTTAT
 GTCACGACAGTTGAAGTCCAGATTCTCAGTTTTGAAAAAGGTGACTCATTTTTCTATTGTTCTGACCG
 CCAAAGATTTTAACCCAGAGAAATATGCCGCCTTCACTAGGATATTGTGTAGAATATATTTGAAATATGG
 AAGTCCGGTTAAATGATGGAGAGTTACATTGCAGTTCTACCAAGGGGATCTGCCAGAGTGAAGAAAAAT
 GGCTCTTTCCTTAGTAGAGACTTTGATGGTCGAAAGGCATACCTTGCTGGCTCCATCAAAGACATTGTAT
 CTCAATTTGGAATGGAACCTGTTATTTTACACACAGCATTGATGCTGAAAAACGAATTGTTGTCTATCA
 CCCCCAAATAGAAGCTGTCCAGGAGTTCACCAGGACTCTGCCTGCCCTGGTGTGGCATCGACAGGATTGG
 ACCATCCTGCATTCTTACATGCACCTTCATGCTGAAGAGCTAGAAGGCCTACAGATGTGCACAGGCTACA
 TTGCTGGCTTTGTAGAATTGGAGGTGAGCAACAGACCAGACCTCTATGACGTGTTTGTGAATCTGGCAGA
 TAGTGAGATCACCATCGCTCCACTTGCAAAGAGGCCATGACGATGGGCAAACTGCATAAGAGATTGGT
 CAACTAATTGTGAATCTGCAGAAGACCCAGAGAAATCAGACAGCCAGGTTATACAGGACATTGCCCTAA
 AAACAAAAGAAATCTTCACTCACCTGGCACCATTCTCAGAAGTGTCTGATGATGGGGGAAAAGTCATCCT
 CAATGTTGAGGCACTGAAGCAGCAGCGATTTCACCCGCAACAGAAAACCTCCTGTATCATCTAGCAGCA
 GCTGAACAAATGCTGAAGGTCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_026437
Insert Size:	1074 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_026437.3</u> , <u>NP_080713.2</u>
RefSeq Size:	2366 bp
RefSeq ORF:	1074 bp
Locus ID:	67894
UniProt ID:	<u>Q9D8N2</u>
Cytogenetics:	19 D3
Gene Summary:	Guanine nucleotide exchange factor (GEF) regulating homeostasis of late endocytic pathway, including endosomal positioning, maturation and secretion, possibly through activating Rab proteins such as RAB27A and RAB27B. Seems to promote the exchange of GDP to GTP, converting inactive GDP-bound RAB27A and RAB27B into their active GTP-bound form. [UniProtKB/Swiss-Prot Function]