

Product datasheet for **MC210648**

Fam45a (NM_001167829) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam45a (NM_001167829) Mouse Untagged Clone
Tag: Tag Free
Symbol: Fam45a
Synonyms: 1810055E12Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210648 representing NM_001167829
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCGGTTGTGGCAATGGACACCCAGCTGATGCTCGGAGTCGGGCTGATCGAAAAGGACTCTAATG
GAGAAGCCCTGTGGTGTGGTGTATCCTCCACGACAGCCTCACTAAGGAATCTGCTGCTCCGAAAATG
CTGCCTAACTGATGAAAACAACTTCTCCACCCTTCGCTTTGGTCAGTACAGAAGAATGGTTTTAT
GTCACGACAGTTGAAGTCCAGATTCTTCAGTTTTGAAAAGGTGACTCATTTTTCTATTGTTCTGACCG
CCAAAGATTTTAAACCAGAGAAATATGCCGCCCTTCACTAGGATATTGTGTAGAATATATTTGAAATATGG
AAGTCCGGTAAAATGATGGAGAGTTACATTGCAGTTCTACCAAGGGGACTGCGCAGAGTGAAGAAAAT
GGCTCTTTCCTTAGTAGAGACTTTGATGGTCGAAAGGCATACCTTGCTGGCTCCATCAAAGACATTGTAT
CTCAATTTGGAATGAAACTGTTATTTACACACAGCATTGATGCTGAAAAACGAATTGTTGTCTATCA
CCCCAAAATAGAAGCTGTCCAGGAGTTCACCAGGACTCTGCCTGCCCTGGTGTGGCATCGACAGGATTGG
ACCATCTGCATTCTTACATGCACCTTCATGCTGAAGAGCTAGAAGGCCACAGATGTGCACAGAATTGG
AGGTGAGCAACAGACCAGACCTCTATGACGTGTTGTGAATCTGGCAGATAGTGAATCACCATCGCTCC
ACTTGCAAAGAGGCCATGACGATGGGCAAACGCATAAAGAGATTGGTCAACTAATTGTGCAATCTGCA
GAAGACCCAGAGAAATCAGACAGCCAGGTTATACAGGACATTGCCCTAAAAACAAAAGAAATCTTCACTC
ACCTGGCACCATTTCTCAGAAGTGTCTGATGATGGGGGAAAAGTCATCCTCAATGTTGAGGCACTGAAGCA
GCAGCGATTTCCACCCGCAACAGAAAACCTCTGTATCATCTAGCAGCAGCTGAACAAATGCTGAAGGTC
TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001167829



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Insert Size:	1053 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:	<ol style="list-style-type: none">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:	<u>NM_001167829.1</u> , <u>NP_001161301.1</u>
RefSeq Size:	2345 bp
RefSeq ORF:	1053 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]