

Product datasheet for **MC210889**

Efcab9 (NM_027031) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Efcab9 (NM_027031) Mouse Untagged Clone
Tag: Tag Free
Symbol: Efcab9
Synonyms: 1700007I06Rik; 4930403C08Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC210889 representing NM_027031
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAACTGACTCCGGGGTGTCTTCTGTGGTACCTTTACATGGACAAAATCTACTGCTTACTGTCTTTGA
GAAACGTGAAAGCCTTGATGGTGTACTTTTCATCTTCTGGATGTGCACCACAGGAACACCTTGAATGATGT
GCTCTTCTTTCAATTCCTCCAGCAGCTGACTAACCTGAACAAGTCACAGATCGGGATGATATTTGACCTC
CTGGACTGGACAGCTGTAGGAGAGATTGGTTTTGACCAGTTCTATGTGTTGATTTGCATACTGCTGGCAC
ATCAGGACCATCTGGAAGACCCTTTATGTACCGCCATCCCGGCCAGTCTTTGAGCTGCTTGATCTGGA
CGGGGAGATGAATATAGGTGCGGCAATTTCCAAAACACAGATTTCTCTTCAATATTAAGCAGGAA
CTCCGAGACCTTTTCCATGACTTTGACATCACAGGTGACCGACTGCTTAATTACAAGGAATTTAAGCTGT
ACACAATCTTCTGCACCGACAAATCCATAGACAGAAAAGAAAGGAGAAAGACAGAGAGGCGAGGAGAGA
GAGAGAAAAGAGAAAGGAAAGATAAAGAGAAGTATCTTCATCTCAAGAAGATATATTCATCTATGTGA
AGCCACAGGAGTATCCTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_027031
Insert Size: 651 bp



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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_027031.3</u> , <u>NP_081307.2</u>
RefSeq Size:	767 bp
RefSeq ORF:	651 bp
Locus ID:	69306
UniProt ID:	<u>Q9DAM2</u>
Cytogenetics:	11 A4
Gene Summary:	pH-dependent Ca(2+) sensor required to activate the CatSper channel, a complex involved in sperm cell hyperactivation (PubMed:31056283). Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization (PubMed:31056283). Associates with the CatSper complex via direct interaction with CATSPERZ, and senses intracellular Ca(2+) (PubMed:31056283). Together with CATSPERZ, associates with the CatSper channel pore and is required for the two-row structure of each single CatSper channel (PubMed:31056283).[UniProtKB/Swiss-Prot Function]