

Product datasheet for **MC204048**

Fam173b (NM_026546) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam173b (NM_026546) Mouse Untagged Clone
Tag: Tag Free
Symbol: Fam173b
Synonyms: A930016P21Rik; AA987072
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC030179
CCACGCGTCCGGATGGAGCGAGTAGGAACGCCCTGAGGAAGAAAGACAGCGGGCCCTGTTCTTCCTACGA
GTCTGGAATCCGACAGTTCAAAGAGGACCAGTTGGGGATTCTTGATTACTGGGGTCGTTGGTGGTCACT
GCTGACAGTGTATGCTGTGGCCACACCATTTCATCACCCCGGCCCTCCGGAAAGTTTGTGGCCATTGCGT
CCTGCAACTTCGAAGCAGGTTGAAAATGTTGTCAGGATGCTGCGACACAGAAGAGGACCCCTGGTGGACA
TCGGCAGTGGCGATGGGCGGATTGTGATTGCAGCTGCAAAGGAAGGCTTCCCAGCGGTGGGGTATGAATT
GAATCCGTGGCTGGTTTGGTACTCCAGATATCGTGCCTGGAGGGCAGGCGTGCATGGCTCTGCCAAGTTT
TATATTTTCAGATCTCTGGAAGGTCACCTTTGCACAGTACTCCAATGTTGTCATTTTTGGTGTGCCCCAGA
TGATGCCACAGCTGGAGAAGAAGCTTGAGCTGGAGCTGGAGGACGGAGCTCGAGTCATTGCCTGTGCGTT
CCCGTTCCCACGCTGGACTCCAGACCACCCACTGGAGAGGGCATCGACACCGTGTGGCCCTATGACATG
AGTGCTCAGAGAGGACGGGGAGGACGGCCGAATCAGGAGTGGGTCGGCCAGAAGAACCTCTCGGAGATAG
CAGGCCTGCAGGCCTCCTCATCTGAGACACGGAGCAAGCTCCTTGACGTTGAGTGACAAGTCACCGCTGC
TCGTCTTCCGTTCTTGAGAAAATGAACAGAACTCAGAGAAGCATTAAAGTTTAAAGCTCTGCTGCTTTTTG
AAGGGCAGTTTCACACGGCCTGGGGTGGCCTTGCACCTTGCTGAGCACGATGACCCGGAACCTCTGATCCT
TCCACTTCTACCTGCCAGTAAAAGGTGCTCCTAGTGGGACATCCTGGATAGGGTGCATGAAGATAAAG
TAAGGGACCGTCTGTCTGTGGGTGAGAAGGTGTCATCTCAGCAGCATGGTTTAAATGGCTCGGGTGAAGAG
GACAGGGCATTTAGGCAAACACCTGCAGTTTCTGTGGTTTTGTTTCATGACTGAATTCGTAGTGTGTAG
CTAAATTAATTTCTAAAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_026546
Insert Size: 744 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>BC030179</u> , <u>AAH30179</u>
RefSeq Size:	1162 bp
RefSeq ORF:	744 bp
Locus ID:	68073
UniProt ID:	<u>Q9D1Z3</u>
Cytogenetics:	15 B2
Gene Summary:	Mitochondrial protein-lysine N-methyltransferase that trimethylates ATP synthase subunit C, ATP5MC1 and ATP5MC2. Trimethylation is required for proper incorporation of the C subunit into the ATP synthase complex and mitochondrial respiration (PubMed:29444090, PubMed:30530489). Promotes chronic pain (PubMed:29444090). Involved in persistent inflammatory and neuropathic pain: methyltransferase activity in the mitochondria of sensory neurons promotes chronic pain via a pathway that depends on the production of reactive oxygen species (ROS) and on the engagement of spinal cord microglia (PubMed:29444090).[UniProtKB/Swiss-Prot Function]