

Product datasheet for **MC225402**

Piezo2 (NM_001039485) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Piezo2 (NM_001039485) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Piezo2
Synonyms:	5930434P17; 9030411M15Rik; 9430028L06Rik; Fam38b; Fam38b2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225402 representing NM_001039485 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCGGAAGTGGTGTGCGGGCTGATCTTCAGGCTGTGCTTCCCATCTGCCTGGCAGTAGCATGTG
CGTTCGGGTACAATGGGCTCTCCTTTGTCTACCTTATCTACCTCTTGCTCATTCTCTGTCTCAGAACC
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CCTACCACAGCTGGCTGACTTTCGTGCTGTTGATCTGGTCTGCACCCTCTGGATGATTCGCAACAGGAG
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 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001039485
Insert Size:	8475 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_001039485.4</u> , <u>NP_001034574.4</u>
RefSeq Size:	10742 bp
RefSeq ORF:	8475 bp
Locus ID:	667742
UniProt ID:	<u>Q8CD54</u>
Cytogenetics:	18 E1
Gene Summary:	Component of a mechanosensitive channel required for rapidly adapting mechanically activated (MA) currents (PubMed:20813920, PubMed:24717433). Required for Merkel-cell mechanotransduction (PubMed:24717433). Plays a major role in light-touch mechanosensation (PubMed:25471886).[UniProtKB/Swiss-Prot Function]