

Product datasheet for MC227189

Rp2 (NM_001290643) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rp2 (NM_001290643) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rp2
Synonyms:	Al662636; Rp2h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227189 representing NM_001290643 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTGCTGCTTCACTAAGAGGAGGAAGAGTGAAAAGGCTGAGGGAGAGGAGGAGCAGCCCAAGCTGT
 ACAGCTGGGACCAGCGGGAGAAGGTTGATCCAAAAGATTACATGTTTAGTGGAAGGATGAAACAGT
 AGGTCGCTTACCTGGAAAAGTGGCAGGACAACAATTTGTCATTCAAGACTGTGAGAACTGTAACTCTAT
 ATTTTGGACCACTCAGCTACTATTACCATTGATGACTGCACTAACTGTGAATTTTTTGGGACCAGTGA
 AAGGCAGTGTCTTTTCCGAAATTGTAGAGATTGCAAGTGCACATTGGCTTGCCAGCAATTCGTGTGAG
 AGACTGTAGAAAGTTGGAAGTCTTTTGTGCTGTGCTACTCAACCCATTATTGAATCTTCCACAAACATC
 AAGTTTGGCTGTTTTCAATGGTACTACCCTGAATTAGCAGCCCAATTCAAAGATGCAGGCCCTCAGTATCT
 TCAATAACATTTGGAGTCATGTTTCATGATTTTACACCTGTGTGAGGAGAGCTCAACTGGAGCCTTCTTCC
 AGAAAAATGCCGTGGTTCAAGACTATGTTCTATCCCAATGACTGAAGAATTCAAAGCTGTGCGAATTTCC
 ACAGAAGCCAATAGAAGCATTGTTCTGTGTCCCGGGTCAGAGACAGAAGTACAGTGATGAATCATGTC
 TTGTGGTATTATTTGCCGATGATTATACAAGTCAATGCCAGGAACTAATTGATGAGATGGTTGGTAA
 AGGCTTCTCCCTAGTGCAGACAAAGGAAATGTCAATGAAAGTGAAGACGCCCAAAGGGTTTTCCAGGAA
 AAGGCATCAGATTTTTTACTTCTTCTAAACAAAGGTCCTGTGATTGCCTTGAATTTAATGGAGATGACG
 CTGTACAAGAATGTCACCTTATTGTAAATGGGATGTTCAACGGGACAAAGATGTTTGTATCAGAAAAGAA
 GGAGACCGCATCTGGAGATGTTGATAGCTTCTATAACTTTGCTGAGATCCAGATGGGGATATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001290643
Insert Size:	1044 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
RefSeq:	<u>NM_001290643.1, NP_001277572.1</u>
RefSeq Size:	1399 bp
RefSeq ORF:	1044 bp
Locus ID:	19889
UniProt ID:	<u>Q9EPK2</u>
Cytogenetics:	X A1.3
Gene Summary:	Acts as a GTPase-activating protein (GAP) involved in trafficking between the Golgi and the ciliary membrane. Involved in localization of proteins, such as NPHP3, to the cilium membrane by inducing hydrolysis of GTP ARL3, leading to the release of UNC119 (or UNC119B). Acts as a GTPase-activating protein (GAP) for tubulin in concert with tubulin-specific chaperone C, but does not enhance tubulin heterodimerization. Acts as guanine nucleotide dissociation inhibitor towards ADP-ribosylation factor-like proteins. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 3' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (a).