Product datasheet for MC226947

Rp2 (NM_001290644) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rp2 (NM_001290644) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rp2
Synonyms:	AI662636; Rp2h
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC226947 representing NM_001290644 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTTAGTGGACTGAAGGATGAAACAGTAGGTCGCTTACCTGGAAAAGTGGCAGGACAACAATTTGTCA TTCAAGACTGTGAGAACTGTAACATCTATATTTTTGACCACTCAGCTACTATTACCATTGATGACTGCAC TAACTGTGTAATTTTTTTGGGACCAGTGAAAGGCAGTGTCTTTTTCCGAAATTGTAGAGATTGCAAGTGC ACATTGGCTTGCCAGCAATTTCGTGTGAGAGACTGTAGAAAGTTGGAAGTCTTTTTGTGCTGTGCTACTC AACCCATTATTGAATCTTCCACAAACATCAAGTTTGGCTGTTTTCAATGGTACTACCCTGAATTAGCAGC CCAATTCAAAGATGCAGGCCTCAGTATCTTCAATAACATTTGGAGTCATGTTCATGATTTTACACCTGTG TCAGGAGAGCTCAACTGGAGCCTTCTTCCAGAAAATGCCGTGGTTCAAGACTATGTTCCTATCCCAATGA CTGAAGAATTCAAAGCTGTGCGAATTTCCACAGAAGCCAATAGAAGCATTGTTCCTGTGTCCCGGGGTCA GAGACAGAAGTACAGTGATGAATCATGTCTTGTGGTATTATTTGCCGATGATTATACAACTGCAAATGCC AGGAAACTAATTGATGAGATGGTTGGTAAAGGCTTCTCCCTAGTGCAGACAAAGGAAATGTCAATGAAAA CTGAAGACGCCCAAAGGGTTTTTCCAGGAAAAGGCATCAGATTTTTTACTTCTTCTAAACAAAGGTCCTGT GATTGCCTTGGAATTTAATGGAGATGACGCTGTACAAGAATGTCACCTTATTGTAAATGGGATGTTCAAC GGGACAAAGATGTTTGTATCAGAAAAGAAGGAGACCGCATCTGGAGATGTTGATAGCTTCTATAACTTTG CTGAGATCCAGATGGGGGATATGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001290644
Insert Size:	933 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).
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:	NM_001290644.1, NP_001277573.1
RefSeq Size:	4581 bp
RefSeq ORF:	933 bp
Locus ID:	19889
UniProt ID:	Q9EPK2
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 (3) contains an alternate exon in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.