

Product datasheet for MC213234

Ankrd27 (NM_178263) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ankrd27 (NM_178263) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ankrd27
Synonyms: AA408090; BC016493; D330003H11Rik; Varp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC213234 representing NM_178263
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCTATATGATGAAGATCTCTGAAAAACCTTTCTACCTGGCCCTTCAGAAGTGGCGCCCGACT
 TGTGCAGCAAGGTGGCCAGATCCATGGCATTGCCTAGTGCCTTGACAGGAAGCCTGCCCGCAGTGT
 GCAGGCCCTCCTGCCAGTTCGAGTCTATGTTTTGGTACCCACGGAAGGACACTTTCAGACCTTAGATGGA
 AAGGCTGTCGTCATTGAAGGAAACAGGATTAAGCTAGGAGCAGGTTTTGCCTTGCCTTCTCTGTGCCCA
 TCCTCTTTGAGGAGACTTCTACAACGAGAAAGAGGAGAGTTTCAGCATTCTCTGCATTGCTCATCCTTT
 GGAGAGGAGAGAGACTTCAGAAGAACCTTCAGCGCCTGCAGATCCTTTCTCCCTGAAAACCATCGAAGAT
 GTGAGAGAATTTTTGGGAAGACACTCAGAGAAATTTGACAAGAACATTGCCTCTTTCCACCGGACGTTCC
 GAGAATGTGAAAGAAAGAGCCTCCGCCACCACATAGACTCCGTAATGCTCTCTACACCAATGCCTCCA
 GCAGTCTCCTCGAGACTCTCACCTGAAGGTTCTTGAAAGCAGGAGGCCAGATGAACCTGATGAAGCAG
 GCCGTAGAGATGTATGTCCATCACGATATTTACGACCTGATCTTTAAATACGTGGGACCATGGAGGCGA
 GCGAGGATGCCGCCTTTAACAAAATCACGAGAAGCCTTCAAGATCTCCAGCAGAAAGACATCGGCGTGAA
 ACCCGAGTTCAGCTTCAACATCCCTCGGGCAAAGAGAGAGCTGGGTGAGTTGAACAAGTGTACGTGCCCA
 CAGCAGAAGCTGCTGTGCCTGAGGAAGGTGGTCCAGCTCATGACACAATCTCCCAGCCAGAGAGTGAAC
 TGGAGACCATGTGTGCCGATGATCTCCTCTCGGTCTGTATATCTGCTCGTGAAGACAGAGATCCCTAA
 CTGGATGGCAAATTTGAGCTACATCAAAAATTCAGATTTAGCAGCTCGGCCAAAGATGAGCTAGGATAC
 TGCCTGACCTCAGTCGAGGCTGCGATTGAATACATCCGGCAAAGGAGTCTCTCCACGAGACGCCTGTAA
 GGTCTCCCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_178263
Insert Size:	1134 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_178263.3</u> , <u>NP_839994.1</u>
RefSeq Size:	1929 bp
RefSeq ORF:	1134 bp
Locus ID:	245886
UniProt ID:	<u>Q3UMR0</u>
Cytogenetics:	7 B2
Gene Summary:	May be a guanine exchange factor (GEF) for Rab21, Rab32 and Rab38 and regulate endosome dynamics (By similarity). May regulate the participation of VAMP7 in membrane fusion events; in vitro inhibits VAMP7-mediated SNARE complex formation by trapping VAMP7 in a closed, fusogenically inactive conformation (By similarity). Involved in peripheral melanosomal distribution of TYRP1 in melanocytes; the function, which probably is implicating vesicle-trafficking, includes cooperation with Rab32, Rab38 and VAMP7 (PubMed:19403694, PubMed:21187289). Involved in the regulation of neurite growth; the function seems to require its GEF activity, probably towards Rab21, and VAMP7 but not Rab32/38 (PubMed:19745841, PubMed:22171327). Proposed to be involved in Golgi sorting of VAMP7 and transport of VAMP7 vesicles to the cell surface; the function seems to implicate kinesin heavy chain isoform 5 proteins, GOLGA4, RAB21 and MACF1. Required for the colocalization of VAMP7 and Rab21, probably on TGN sites (By similarity). Involved in GLUT1 endosome-to-plasma membrane trafficking; the function is dependent of association with VPS29 (By similarity). Regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (PubMed:26620560).[UniProtKB/Swiss-Prot Function]