

Product datasheet for **MC223788**

Ankfy1 (NM_009671) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankfy1 (NM_009671) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ankfy1
Synonyms:	Ankhzn; mKIAA1255; ZFYVE14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223788 representing NM_009671 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGAAGAGGAGGTGGCCAAGTTGGAGAAGCATTTGATGCTTCTAAGACAAGAGTATGTCAAGCTGC
AGAAGAACTGGCAGAAACAGAGAAAAGATGCACTCTTTTGGCTGCACAAGCAAACAAGGAGAATAGCAA
CGAGTCATTATCAGCCGCTTGTGGCCATAGTGGCAGGTCTCTATGAGCAAGAGCAGTACAGTGATTTG
AAGATCAAGTTGGGGACAGGCACATCAGTGCTACAAGTTTGTCTTGGCCGCCCGCAGTGATAGCTGGA
GTCTGGCCAATTTGTCTCCACAGAGGAGATAGACTTGTGAGATGCGAATCCTGAGGTGACAATGACAAT
GCTTCGCTGGATCTATACGGATGAGTTAGAGTTCAGAGAGGATGATGTGTTCTGACTGAATTGATGAAA
CTGGCCAATCGCTTCAGCTCCAGCTCCTTAGGGAGAGATGTGAGAAGGGTGTTATGTCTCTGGTGAATG
TTAGGAACTGTATTGCTTCTATCAAACAGCAGAGGAATTAATGCCAGTACGCTGATGAACTATTGTGC
AGAAATTATTGCAAGTCACTGGGATGACTTGCGAAAGGAGGACTTCAGTAGCCTGAGTGCTCAGTTGTTA
TACAAATGATCAATCCAAGACAGAGTACCCATTACATAAAGCTATCAAAGTGGAGAGAGAAGATGTGG
TCTTCTCTATCTGATTGAAATGGATTCCAGCTACCTGGGAAGCTTAACGAAACAGATCATAATGGAGA
TCTTGCGTTAGATCTGGCTCTTCTCGGCGACTAGAGAGTATTGCCACCACTCTGGTTAGTCATAAAGCT
GATGTGGATATGGTAGACAAAAATGGCTGGAGCTTATTACATAAAGGGATCCAAAGAGGAGATCTTTTG
CTTCTACATTCTCATTAGAACGGGGCCCTTGTCAATGCTGCCACAGCAGGAGCCAGGAGACCCCAT
ACACCTTGTAGCATTGTACAGTCCAAAGAAATACTCAGCAGATGTGATGTCTGAGATGGCACAGATTGCG
GAGGCCCTCCTGCAGGCTGGTGCCAACCCCAACATGCAGGATAGCAAGGGCAGGACTCCTTTACACTTGT
CCATCATGGCCAGGAACGACTGTGTGTTAGTCAGCTGCTGCAGTGTAACAATTAGATTAGAGCTGAA
AGATCACGAAGGCAGCACTGCACTCTGGCTGGCCGTCCAGTACATCACTGTGCTTCAGACCAGTCTGTA
AACCCCTTTGAAGACCTCCCTGTGGTGAATGGGACATCATTTGATGAGAATAGCTTGCAGCCAGACTCA
TTCAACGCGGCAGCAACACTGATGCTCCTGATGTGATGACAGGAAATTGTTTACTACAAAGGCAGCTGG
GGCTGAAATGAGGCTGCTGCTCTTCTGGCAACTAGTGGTGGCCATGCCAACACAGGAACAAATGG



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GGAGAACTCCTTTGCATACAGCTTGTCGGCATGGCCTGGCCAACTCACAGCAGAGCTCCTGCAGCAAG
 GTGCCAATCCAACTTACAGACAGAGGAGGCTCTGCCGGTACCTAAAGAGTCTCCCGTCTAATGAGTTC
 TGCAGACAGCATCTACCTACAAACACCACTGCACATGGCAATTGCCTATAACCATCCAGATGTGGTTTCT
 GTCATCTTAGAGCAGAAAGCCAACTGCTCTTCATGCCACCAACAACCTACAAATTATTCCAGACTTCAGCC
 TCAAGGATTCCAGAGACCAAACTGTTCTCGGCCTGGCATTATGGACTGGCATGCACAAATCGTGCCCA
 GCTGCTGGGCTCCGGAGCCTCTATCAATGACACCATGTGAGTGGACAGACATTGCTGCACATGGCCATA
 CAGCGGCAGGACAGCAAGAGCGCTCTCTCTACTGGAGCACAAGCTGATATAAATGTCAGGACTCAGG
 ACGGGGAGACTGCCCTCCAGCTGGCCATCAAACATCAGCTCCCCTAGTGGTTGATGCCATATGTACTCG
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 GAGGACATTGCTTCCACTCTGGTCAGACATGGTTGCGATGCTACATGCTGGGGCCAGGACCCAGTGGGT
 GTCTTCAGACACTTCTGCATAGAGCCGTTGATGAAAACAATGAGTCTACTGCCTGCTTTCTTATTGCGAG
 TGGCTGTGACGTGAATAGTCCCAGACAACCAAGTACTAATGGAGAAGGAGAAGAGGAAGCAAGGGATGGA
 CAGACTCCCTGCATTTGGCAGCCTCATGGGACTAGAAGAGACAGTACAGTGTCTTTGGAGTTTGGTG
 CCAACGTCAATGCACAGGATGCAGAAGGGAGAAGCGCTGTCCATGTGGCCATCAGCAACCAGCATAGCGT
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 TTTGCCTGTGCCATGACTTACAAGAACAATAAGGCAGCTGAAGCCATTTTAAACGAGAGTCTGGGGCTG
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 CTTGTTCTGATCAGTGTCCAGGCCAATGTGAATCCAGAGTCCAGGATGCTTCCAAGTTGACCCCTCTG
 CACCTTGCTGTTGAGCCGGCTCAGAGATCATTGTCCGAAATCTGCTTCTTGAGGAGCCAAGGTGAATG
 AGTTAACCAAGCATCGTCAGACCGCTCTCCATCTCGCTGCACAGCAGGACCTGCCACCATCTGCTCAGT
 CCTCTAGAGAATGGAGTGGACTTCGCTGCTGTGGATGAGAATGGAAATAATGCTCTTCATCTTGGCGTC
 ATGCATGGTCGACTCAACAATATCCGGGCTCTTCTGACAGAGTGTACAGTAGATGCTGAAGCCTTTAATC
 TGAGAGGCCAGTCACCACTACACATTTTGGGACAGTATGGCAAAGAAAATGCAGCAGCCATCTTTGATCT
 CTCTTAGAGTGTATGCCTGAGTATCCTCTGGACAAACCAGATGCAGAAGGCAACACAGTGTGCTCTTA
 GCATACATGAAAGGGAATGCCAATTGTGCCGTGCCATCGTTGCTGCTGGGGTTCGCCTTGGGGTGAATA
 ATAACCAAGGAGTCAACATTTTCACTACCAGGTTGCCACTAAGCAGCTTCTGTTTAGATTATTAGATAT
 GCTCTCCAAGAGCCTCCATGGTGTGACGGCTCCAAGTCTATGAATGTACTGCCAAGTTTGGAGTCACA
 ACTCGAAAACATCACTGTCGTCAGTGGCGCTCTCTTTGCCATAAATGCTCAACCAAGGAGATCCCTA
 TTATAAGTTTGACCTGAACAAGCCTGTGCGGGTTTGCAACATTTGCTTTGATGTACTGACTCTGGGTGG
 AGTCTCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_009671

Insert Size:

3510 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_009671.5, NP_033801.4

RefSeq Size: 8034 bp

RefSeq ORF: 3510 bp

Locus ID: 11736

UniProt ID: Q810B6

Cytogenetics: 11 B4

Gene Summary: Proposed effector of Rab5. Binds to phosphatidylinositol 3-phosphate (PI(3)P). Involved in homotypic early endosome fusion and to a lesser extent in heterotypic fusion of clathrin-coated vesicles with early endosomes. Required for correct endosomal localization. Involved in the internalization and trafficking of activated tyrosine kinase receptors such as PDGFRB. Regulates the subcellular localization of the retromer complex in a EHD1-dependent manner. Involved in endosome-to-Golgi transport and biosynthetic transport to late endosomes and lysosomes indicative for a regulation of retromer complex-mediated retrograde transport (By similarity). Involved in macropinocytosis; the function is dependent on Rab5-GTP. [UniProtKB/Swiss-Prot Function]