

Product datasheet for **RG215935**

ANKFY1 (NM_016376) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ANKFY1
Synonyms:	ANKHZN; BTBD23; ZFYVE14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215935 representing NM_016376
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGCGGCC

ATGGCGGAAGAGGAGGTGGCCAAGTTGGAGAAGCACTTGATGCTTCTGCGGCAGGAGTATGTCAAGCTGC
AGAAGAAGCTGGCGGAGACAGAGAAGCGCTGCGCTCTCTTGCTGCGCAGGCAACAAGGAGAGCAGCAG
CGAGTCCTTCATCAGCCGTCTGCTGGCCATCGTGGCAGACCTCTACGAGCAGGAGCAGTACAGCGATCTG
AAGATAAAGGTTGGGACAGGCACATCAGTGCTCACAAGTTTGCTGCTGGCAGCCCGCAGTGACAGCTGGA
GTCTGGCTAACTTGCTTCCACTAAAGAGTTGGACCTGTCAGATGCTAATCCTGAGGTGACGATGACAAT
GCTTCGCTGGATCTATACAGATGAGCTGGAGTTCAGAGAGGATGATGTGTTCTGACTGAACTGATGAAA
CTAGCAAAATCGGTTTCAGCTACAGCTCCTCAGGAGAGATGTGAGAAGGGTGTATGTCTCTAGTGAATG
TCAGGAACTGTATTCGTTCTACCAGACGGCAGAGGAGCTGAATGCCAGCACACTGATGAACTACTGTGC
AGAAATTATTGCAAGTCATTGGGACGACCTGAGGAAGGAGGATTTACGACGATGAGCGCTCAGTTGTTA
TACAAAATGATCAAATCCAAGACAGATACCCGCTACATAAAGCCATCAAAGTGAGAGAGAGAAGACGTGG
TCTTCTGTATCTGATTGAAATGGATTCCAGCTCCCTGGGAAGCTGAATGAAGCGGATCATAACGGAGA
TCTGGCATTAGATCTAGCCCTCTCAGCAGACTGGAGAGTATTGCCACCACGCTGGTTAGTCACAAAGCT
GATGTGGACATGGTGGACAAGAGTGGCTGGAGCTTGTTACACAAAGGAATCCAAAGAGGAGATCTCTTTG
CTGCCACTTTCCTCATTAAAGATGGGCGCTTTGTCAACGCTGCTACACTGGGTGCCAGGAGACACCACT
GCACCTTGTGGCTTGTACAGTTCAAAGAAACACTCAGCAGATGTGATGTCTGAGATGGCGCAGATTGCA
GAGGCCCTTCTGAGGCTGGTGCCAAACCCCAACATGCAGGACAGCAAGGGGAGGACTCCTTTACATGTGT
CCATCATGGCCGGGAATGAATATGTGTTCACTCAGCTGCTGCAAGTCAAACTAGATTTAGAAGTCAA
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GCGCAACCCAAACCTGCAGACGGAGGAAGCTCTGCCTCTGCCAAAGGAGGCCGATCCCTGACCAGCTT
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ACGAATTAACCAAGCATCGCCAGACTGCCCTCCATCTTGCTGCCAGCAGGACCTGCCACCATCTGCTC
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CTGGCATACATGAAAGGGAACGCCAATTTGTCGCGGCCATCGTCCGGTCCGGGGCTCGCCTCGGGGTGA
ATAACAACCAGGGAGTCAACATCTTCAACTACCAGGTGCCACCAAGCAGCTCCTGTTCCGACTGCTGGA
TATGCTGTCCAAGGAGCCTCCGTGGTGTGACGGCTCTACTGCTATGAGTGCAGTGCAGGTTCCGAGTC
ACCACTCGCAAAACCACTGTGCTGCTGCGGACGTCTTCTTGGCATAAATGCTCGACCAAGGAGATTC
CTATTATAAGTTTGATCTGAACAAGCCTGTGCGGGTTGCAACATTTGTTTGTGACTGACTCTGGG
TGGGTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215935 representing NM_016376
Red=Cloning site Green=Tags(s)

MAEEVAKLEKHLMLLRQEVKLQKKLAETEKRCALLAAQANKESSESFISRLLAIVADLYEQEQYSDL
KIKVGRDRHISAHKFVLAARSDSWSLANLSSTKELDLSDANPEVTMTMLRWIYDELEFREDDVFLTELMK
LANRFQLQLLRERCEKGVMSLVNVRNCIRFYQTAEELNASTLMNYCAEIIASHWDLRKEDFSSMSAQLL
YKMIKSKTEYPLHKAIAKVEREDVVFLYLIEMDSQLPGKLINEADHNGDLALDLALSRRESIATTLVSHKA
DVMVDKSGWSLLHKGIRGDLFAATFLIKNGAFVNAATLGAQETPLHLVALYSSKKHSADVMSEMAQIA
EALLQAGANPNMQDSKGRTPHVSIMAGNEYVFSQLLQCKQLDLELKDHEGSTALWLAVQHITVSSDQSV
NPFEDVPVNGTSFDENSFAARLIQRGSHTDAPDTATGNCLLQRAAGAGNEAALFLATNGAHVNRNWK
GETPLHTACRHGLANLTAEELLQGANPNLQTEALPLPKEASLTSADSVHLQTPLHMAIAYNHPDVVS
VILEQKANALHATNNLQIIPDFSLKDSRDQTVLGLALWTGMHTIAAQLLGSGAAINDTMSDQTLHMAI
QRQDSKSALFLLHQADINVSRQDGETALQLAIRNQLPLVVDICTRGADMSVPDEKGNPLWLALANN
LEDIASTLVRHGCDATCWGPGGCLQTLHRAIDENNEPTACFLIRSGCDVNSPRQPGANGEGEEEAR
GQTPHLHAAASWGLEETVQCLLEFGANVNAQDAEGRTPIHVAISSQHGVIIQLLVSHPDHNLNVRDRQGLT
PFACAMTFKNNKSAEAILKRESGAAEQVDNKGKRNFLHVAQNSDIESVFLISVHANVNSRVQDASKLTP
LHLAVQAGSEIIVRNLLLAGAKVNELTKHRQTALHAAQQDLPTICSVLLENGVDFAAVDENGNNALHLA
VMHGRLLNNIRVLLTECTVDAEAFNLRGQSPLHILGQYKGENAAIFDLFLECMGPYPLDKPADGSTVLL
LAYMKGANL CRAIVRSGARLGVNNQGVNIFNYQVATKQLLFRLLDMLSKEPPWCDGSYCECTARFGV
TTRKHCHRCGRLLCHKCSTKEIPIIKFDLNKPVRCNICFDVLTLLGGVS

TRTRPLE - GFP Tag - V

Restriction Sites:

AscI-MluI

Cloning Scheme:



ACCN: NM_016376

ORF Size: 3510 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_016376.5](#)

RefSeq Size: 7959 bp

RefSeq ORF: 3513 bp

Locus ID: 51479

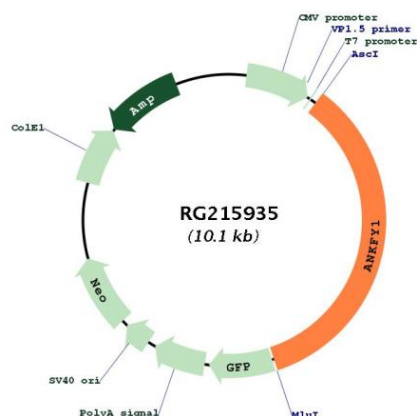
UniProt ID: [Q9P2R3](#)

Cytogenetics: 17p13.2

Domains: BTB, FYVE, ANK

Gene Summary: This gene encodes a cytoplasmic protein that contains a coiled-coil structure and a BTB/POZ domain at its N-terminus, ankyrin repeats in the middle portion, and a FYVE-finger motif at its C-terminus. This protein belongs to a subgroup of double zinc finger proteins which may be involved in vesicle or protein transport. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RG215935