

Product datasheet for **RG227563**

ANK1 (NM_001142445) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ANK1 (NM_001142445) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ANK1
Synonyms: ANK; SPH1; SPH2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227563 representing NM_001142445
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGACTTTCGTACCCAGCTGTTGGTCACGCTGGTGTGCTGAGCTTCTCCTGGTCAGCTGTCAGA
ACGTGATGCACATTGTCAGGGGGTCCCTGTGCTTTGTGCTAAAGCACATCCACCAGGAGCTGGACAAGGA
GCTGGGGGAGAGCGAGGGCCTCAGTGACGACGAGGAGACCATCTCCACCAGGGTGGTCCGGCGCGGGTC
TTCCTGAAGGGGAATGAGTTTCAGAATATTCAGGGGAGCAGGTGACAGAGGAGCAATTCACGGATGAGC
AGGGCAACATTGTCACCAAGAAGATCATTGCGAAGGTGGTTCGACAGATAGACTTGTCCAGCGCCGATGC
CGCCAGGAGCAGGAGGTGACTGTAGAGGGGCCCTGGAGGATCCCAGTGAGCTGGAGTGCATATT
GATTACTTTATGAAACTCCAAGGATCACACCTCGACACCCAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227563 representing NM_001142445
Red=Cloning site **Green**=Tags(s)

MWTFVTQLLVTLVLLSFFLVSCQNMHIVRGSFCVFLKHIHQELDKELGESEGLSDDEETISTRVRRRV
FLKGNFQNIPEQVTEEQFTDEQGNIVTKKIIRKVVRQIDLSSADAAQEHEEVTVEGPLDPSLEVEDI
DYFMKHSKDHTSTPNP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	NM_001142445.2
RefSeq Size:	3244 bp
RefSeq ORF:	471 bp
Locus ID:	286
UniProt ID:	P16157
Cytogenetics:	8p11.21
Protein Families:	Transmembrane
Gene Summary:	Ankyrins are a family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. Ankyrin 1, the prototype of this family, was first discovered in the erythrocytes, but since has also been found in brain and muscles. Mutations in erythrocytic ankyrin 1 have been associated in approximately half of all patients with hereditary spherocytosis. Complex patterns of alternative splicing in the regulatory domain, giving rise to different isoforms of ankyrin 1 have been described. Truncated muscle-specific isoforms of ankyrin 1 resulting from usage of an alternate promoter have also been identified. [provided by RefSeq, Dec 2008]