

Product datasheet for RC213698

ANK1 (NM_020478) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ANK1 (NM_020478) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ANK1
Synonyms: ANK; SPH1; SPH2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC213698 representing NM_020478
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGGACTTTCGTCACCCAGCTGTTGGTCACGCTGGTGTGCTGAGCTTCTTCCTGGTCAGCTGTCAGA
ACGTGATGCACATTGTCAGGGGGTCCCTGTGCTTTGTGCTAAAGCACATCCACCAGGAGCTGGACAAGGA
GCTGGGGGAGAGCGAGGGCCTCAGTGACGACGAGGAGACCATCTCCACCAGGGTGGTCCGGCGGGGGTC
TTCTGAAGGGGAATGAGTTTCAGAATATTCAGGGGAGCAGGTGACAGAGGAGCAATTCACGGATGAGC
AGGGCAACATTGTCACCAAGAAGATCATTCCGAAGGTGGTTTCGACAGATAGACTTGTCCAGCGCCGATGC
CGCCAGGAGCACGAGGAGGTGGAGCTGAGAGGGAGTGGCCTACAGCCGGACCTGATAGAGGGCAGGAAG
GGGGCGCAGATAGTGAAGCGGGCCAGCCTGAAAAGGGGAAACAG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213698 representing NM_020478
Red=Cloning site Green=Tags(s)
MWTFTVQLLVTLVLLSFFLVSCQNMHIIVRGLCFVLKHIHQELDKELGESEGLSDDEETISTRVRRRV
FLKGNFQNIPEQVTEEQFTDEQGNIVTKKIIRKVVRQIDLSSADAAQEHEEVELRGSGLQPDLEGRK
GAQIVKRASLKRKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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_020478.5</u>
RefSeq Size:	3304 bp
RefSeq ORF:	468 bp
Locus ID:	286
UniProt ID:	<u>P16157</u>
Cytogenetics:	8p11.21
Protein Families:	Transmembrane
MW:	17.6 kDa
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]