

Product datasheet for RC225475

ANKRD2 (NM_001129981) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD2 (NM_001129981) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKRD2
Synonyms:	ARPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225475 representing NM_001129981 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAAGGCGCCAGCTGGGCAGGGTGGGTGCTCTGGCCTATAAAGCCCCGAGGCCCTGTGGCCTG
CAGAGGCGGTTATGGACGGCACCATGGAGGACTCCGAGGCGGTGCAGAGGGCCACAGCGCTCATCGAGCA
GCGGCTGGCACAGGAGGAGGAGAATGAGAACTCCGAGGAGACGCACGCCAGAAGCTGCCATGGACTTG
CTGGTGTGGAGGATGAGAAGCACACGGGGCTCAGAGTGCAGCCCTGCAGAAGGTGAAGGGCCAAGAGC
GCGTGCGAAGACGTCCCTGGACCTGCGGCGGGAGATCATCGATGTGGGCGGGATCCAGAACCTCATCGA
GCTGCGGAAGAAACGCAAGCAGAAGAAGCGGGACGCTCTGGCCGCTCGCATGAGCCGCCCCAGAGCCC
GAGGAGATCACTGGCCCTGTGGATGAGGAGACCTTCTGAAAGCTGCGGTGGAGGGGAAAATGAAGGTCA
TTGAGAAGTTCCTGGCTGACGGGGGTGACCCGACACGTGCGACCAAGTCCGTCGGACAGCACTGCACCG
AGCTTCCCTGGAAGGCCACATGGAATCCTGGAGAAGCTTCTAGATAATGGGGCCACTGTGGACTCCAG
GATCGGCTGGACTGCACAGCCATGCATTGGGCCTGCCGCGGGGCCACTTAGAGGTGGTAAACTTCTGC
AAAGCCATGGAGCAGACACCAATGTGAGGGATAAGGAAGGGGATACTGCCTGCATGACGCTGTGAGGCT
CAACCGCTACAAAATCATCAAATGCTGCTCCTGCATGGGGCTGACATGATGACCAAGAAGCTGGCAGGA
AAGACCCCGACGGACCTGGTGCAGCTCTGGCAGGCTGATACCCGGCAGCCCTGGAGCATCTGAGCCGG
GGGCTGAGCATAACGGGCTGGAGGGCCTAATGATAGTGGGCGAGAGACCCTCAGCCTGTGCCAGCCCA
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC225475 representing NM_001129981
Red=Cloning site Green=Tags(s)

MAKAPSWAGVGGALAYKAPEALWPAEAVMDGTMEDSEAVQRATALIEQRLAQEEENEKLRGDARQKLPMDL
 LVLEDEKHHGAQSAALQKVKGQERVRKTSLLDLRREIIDVGGIQNLIELRKKRKQKKRDAL AASHEPPPEP
 EEITGPVDEETFLLKAAVEGKMKVIEKFLADGGSADTCDFRRTALHRASLEGHMEILEKLLDNGATVDFQ
 DRLDCTAMHWACRGGHLEVVKLLQSHGADTNVRDKEGDTALHDAVRLNRYKIIKLLLLHGADMMTKNLAG
 KTPTDLVQLWQADTRHALEHPEPGAENHLEGPNDSGRETPQPVAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001129981

ORF Size: 981 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.

RefSeq: [NM_001129981.3](#)

RefSeq ORF: 984 bp

Locus ID: 26287

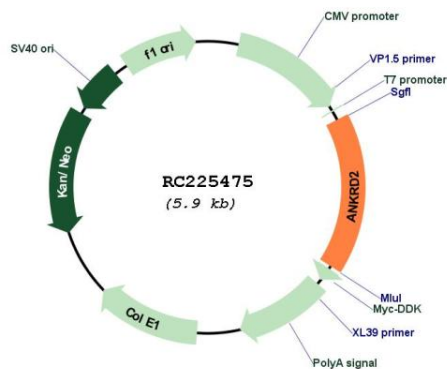
UniProt ID: [Q9GZV1](#)

Cytogenetics: 10q24.2

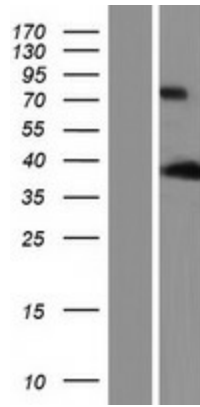
MW: 36 kDa

Gene Summary: This gene encodes a protein that belongs to the muscle ankyrin repeat protein (MARP) family. A similar gene in rodents is a component of a muscle stress response pathway and plays a role in the stretch-response associated with slow muscle function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]

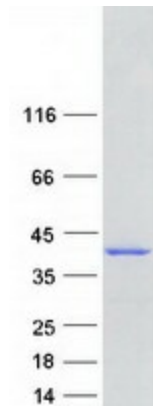
Product images:



Circular map for RC225475



Western blot validation of overexpression lysate (Cat# [LY427086]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225475 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANKRD2 protein (Cat# [TP325475]). The protein was produced from HEK293T cells transfected with ANKRD2 cDNA clone (Cat# RC225475) using MegaTran 2.0 (Cat# [TT210002]).