

Product datasheet for **RC210468**

ANKRD2 (NM_020349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD2 (NM_020349) 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:	>RC210468 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAAAGGCGCCAGCTGGGCAGGGGTGGTGTCTGGCCTATAAAGCCCCGAGGCCCTGTGGCCTG
CAGAGGCGGTTATGGACGGCACCATGGAGGACTCCGAGGCGGTGCAGAGGGCCACAGCGCTCATCGAGCA
GCGGCTGGCACAGGAGGAGAATGAGAACTCCGAGGAGACGCACGCCAGAAGCTGCCATGGACTTG
CTGGTGTGGAGGATGAGAAGCACCCAGGGGCTCAGAGTGCAGCCCTGCAGAAGGTGAAGGGCCAAGAGC
GCGTGCGAAGACGTCCCTGGACCTGCGGCGGGAGATCATCGATGTGGGCGGGATCCAGAACCTCATCGA
GCTGCGGAAGAAACGCAAGCAGAAGAAGCGGGACGCTCTGGCCGCTCGCATGAGCCGCCCCAGAGCCC
GAGGAGATCACTGGCCCTGTGGATGAGGAGACCTTCTGAAAGCTGCGGTGGAGGGGAAAATGAAGGTCA
TTGAGAAGTTCCTGGCTGACGGGGGTGACCCGACACGTGCGACCAAGTCCGTGCGACAGCACTGCACCG
AGCTTCCCTGGAAGGCCACATGGAATCCTGGAGAAGCTTCTAGATAATGGGGCCACTGTGGACTTCCAG
GATCGGCTGGACTGCACAGCCATGCATTGGGCTGCCGCGGGGGCCACTTAGAGGTGGTGAAGTCTTGC
AAAGCCATGGAGCAGACACCAATGTGAGGGATAAGCTGCTGAGCACCCCGCTGCACGTGGCAGTCCGGAC
AGGGCAGGTGGAGATTGTGGAGCACTTTCTATCCCTGGCCTGGAATCAATGCCAGAGACAGGGAAGGG
GATACTGCCCTGCATGACGCTGTGAGGCTCAACCGCTACAAAATCATCAAAGTCTGCTCCTGCATGGGG
CTGACATGATGACCAAGAACCTGGCGGGAAAGACCCCGACGGACCTGGTGCAGCTCTGGCAGGCTGATAC
CCGGCACGCCCTGGAGCATCCTGAGCCGGGGGCTGAGCATAACGGGCTGGAGGGCCATGATAGTGGG
CGAGAGACCCCTCAGCCTGTGCCAGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC210468 protein sequence
Red=Cloning site Green=Tags(s)

MAKAPSWAGV GALAYKAPEALWPAEAVMDGTMEDSEAVQRATALIEQRLAQEEENEKLRGDARQKLPMDL
 LVLEDEKHHGAQSAAALQVKVGQERVRKTSLLDLRREIIDVGGIQNLIELRKKRQKQRDALAASHEPPPEP
 EEITGPVDEETFLLKAAVEGKMKVIEKFLADGGSADTCDFRRTALHRASLEGHMEILEKLLDNGATVDFQ
 DRLDCTAMHWACRGGHLEVVKLLQSHGADTNVRDKLLSTPLHVAVRTGQVEIVEHFLSLGLEINARDREG
 DTALHDAVRLNRYKIIKLLLLHGADMMTKNLAGKTPDLDLVLWQADTRHALEHPEPGAENGLGPNDSG
 RETPQVPAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6555_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_020349

ORF Size: 1080 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_020349.4](#)

RefSeq Size: 1520 bp

RefSeq ORF: 1083 bp

Locus ID: 26287

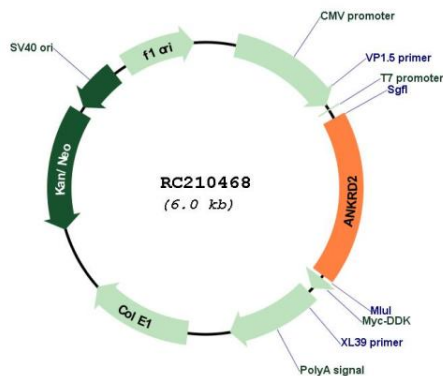
UniProt ID: [Q9GZV1](#)

Cytogenetics: 10q24.2

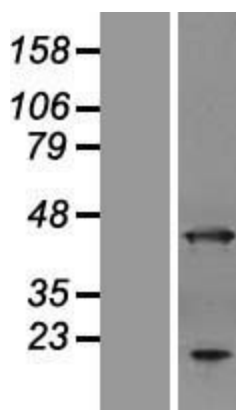
MW: 39.9 kDa

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]

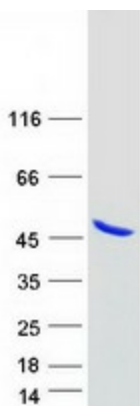
Product images:



Circular map for RC210468



Western blot validation of overexpression lysate (Cat# [LY412545]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210468 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANKRD2 protein (Cat# [TP310468]). The protein was produced from HEK293T cells transfected with ANKRD2 cDNA clone (Cat# RC210468) using MegaTran 2.0 (Cat# [TT210002]).