

Product datasheet for RC204657

ANKRD49 (NM_017704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANKRD49 (NM_017704) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANKRD49
Synonyms:	FGIF; GBIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204657 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAAAAAGAAAAGGAAATGATGATGGAATACCAGACCAAGAGAATTCCTTGGATTTTCTGAACACT
 TTAACCAACTTGAATTGTTGAAACACATGGACACCTTATTCCTACTGGTACTCAAAGTCTTTGGGTAGG
 CAATTCTGATGAAGATGAGGAGCAAGATGACAAAAATGAAGAGTGGTATCGATTGCAAGAAAAAATG
 GAAAAAGACCCAAGCAGATTGCTTCTTTGGCTGCTGAAAAAATCGGCTTACCACAGTGGGAGACTCC
 TTTCTGAAAAGGCCACTCACGTGAACACTAGGGATGAAGATGAGTATACCCCTCTTCATCGAGCAGCCTA
 CAGTGGACACTTAGATATTGTTCAAGAGCTCATTGCACAGGGGGCCGATGTTTCATGCACTGACTGTGGAT
 GGCTGGACGCCCTGCACAGTGCTTGAAGTGGAATAATACCAGAGTGGCTTCTTTCTTACTGCAGCATG
 ATGCAGATATCAATGCCCAAACAAAAGGCCTCTTGACCCCTTGATCTTGCTGCTGGGAACAGAGACAG
 CAAGGATACCTAGAACTCCTCCTGATGAACCGTTACGTCAAACAGGGCTGAAAAACAATTGGAAGAA
 ACTGCATTTGATATTGCCAGGAGGACAAGTATCTATCACTACCTCTTTGAAATTGTGAAGGCTGTACAA
 ATTCTTCACCTCAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC204657 protein sequence
 Red=Cloning site Green=Tags(s)

MEKEKGNDDGIPDQENSLDFSEHFNQLELLETHGHLIPTGTQSLWVGNSEDEEQDDKNEEWYRLQEKKM
 EKDPSRLLWAAEKNRLTTVRLLSEKATHVNTRDEDEYTPLHRAAYSGHLDIVQELIAQGADVHAVTV
 GWTPHLSACKWNNTRVASFLLQHDADINAQTKGLLTPHLAAGNRDSKDTLELLLMNRYVKPGLKNNLEE
 TAFDIARRTSIYHYLFEIVEGCTNSSPQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6438_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017704

ORF Size: 717 bp

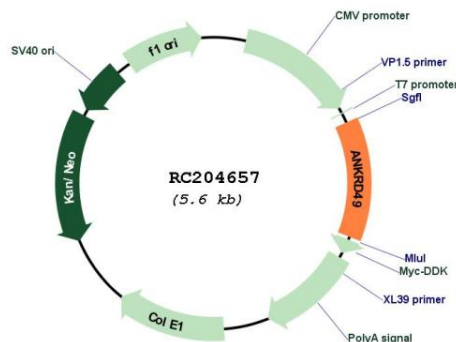
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

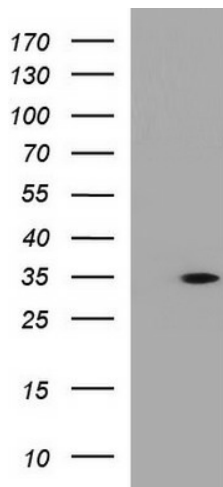
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_017704.3</u>
RefSeq Size:	1924 bp
RefSeq ORF:	720 bp
Locus ID:	54851
UniProt ID:	<u>Q8WVL7</u>
Cytogenetics:	11q21
Domains:	ANK
MW:	27.3 kDa
Gene Summary:	Induces HBG1 expression (PubMed:16131492, PubMed:11162141). May have a role in spermatogenesis where it promotes autophagy in response to serum starvation, via the NF-kappaB pathway (By similarity).[UniProtKB/Swiss-Prot Function]

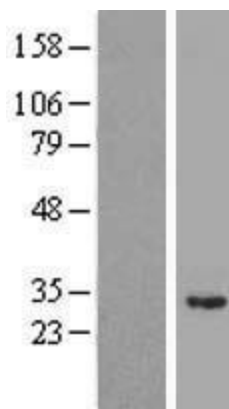
Product images:



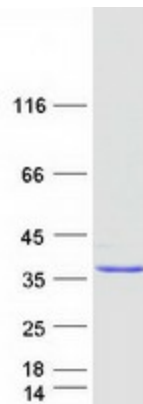
Circular map for RC204657



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ANKRD49 (Cat# RC204657, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ANKRD49(Cat# [TA507228]). Positive lysates [LY413612] (100ug) and [LC413612] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413612]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204657 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ANKRD49 protein (Cat# [TP304657]). The protein was produced from HEK293T cells transfected with ANKRD49 cDNA clone (Cat# RC204657) using MegaTran 2.0 (Cat# [TT210002]).