

Product datasheet for **RR208388**

Ankrd16 (NM_001033698) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ankrd16 (NM_001033698) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ankrd16
Synonyms:	MGC124844
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208388 representing NM_001033698 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCGCCTGGGGATCCGAGGCGTCTCTGCAGGCTGGTGCAGGAGGGCCAGCTGCGCGCCTGCGGG
AAGAGCTGGAGGTAGCTGGAGTTGCTGGGATCCAGAGATGTTCCGAGGCAGCCAAGGGCCAGCTGGGA
CACCTTCTCCACTTCGCATCACGCCACGGGCGCCAGGACATCCTAGCGTACCTAGTGGAGGCTTGAGT
ATGGACATCGAGGCCCAACCGAGACTACAAGCGGCCTCTGCACGAAGCTGCCTCAATGGGCCACCGGG
ACTGCGTGCCTACCTCCTGGGCCGAGGTGCAGTGGTGGACTCCTTGAAGAAGGGCGGACTGGACTCCTCT
GATGATGGCTTGACAAGGAAGAACCTTGAGGTGATCCAGGACCTTGTAGAACACGGTGCCAACCCACTC
CTGAAGAACAAGGATGGCTGGAACAGTTTCCACATTGCCAGCAGGGAAGGCGACCCTGTGATCCTCCGGT
ACTTGCTCACTGTCTGCCAGACGTTTGGAAAACAGAGAGCAAAATCAGAAGAATCCTTTACACACTGC
AGCAATGCACGGCTGTTTCAAGCAGTCCAGGAGCTTCTTGAGAGATGTCACTATGAACCAGACTGTAGA
GACAACTGTGGCGTCACACCTTCATGGATGCAATTCAGTGCGGCCATGTCAGCATAGCCAAGCTGCTCC
TTGAAAACACGAGGCTTGCTCTTCAGCTACAGATAGTCTGGGGGCCAGGCTCTACACCGAGCAGCAT
CACTGGGCAGGATGAAGCCATCCGATTCCTGGTGTGCGGTCTTGGCATTGATGTCGATGTGAGAGCAAAG
TCAAGCCAGCTCACAGCACTTCTTTATGCAGCGAAGGAAGGACAGACGAGCACAGTTCAAACCTGTGTGT
CCTTGGGTGCCGACATCAACTCCACAGATGAACGAAATCGCTCAGCCCTGCATCTGGCCTGTGCAGGTCA
GCACGCGGCTTGCAGGTTCTCCGACAGTCAAGGCTGAAGGATTCTGCAGACCTAACAGGCGCCTTG
GCCAGCAACTCACGAGGGCGTGGCTATCCTTCAGGACTTTGACCCCGCGTGAAGTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208388 representing NM_001033698
 Red=Cloning site Green=Tags(s)

MAPPGDPRRLCRLVQEGQLRALREELEVAGGCWDPFMFRGSQGPAGDTLLHFASRHGRQDILAYLVEAWS
 MDIEAANRDYKRPLHEAASMGRDCVRYLLGRGAVVDSLKADWTPLMMACTRNLEVIQDLVEHGANPL
 LKNKDGWNSFHIA SREGDPVILRYLLTVCPDVWKTESKIRRTPLHTAAMHGCFEAVQELLERCHYEPCDR
 DNCGVTPFMDAIQCGHVSIAKLLLENHEACSSATDSLGAQALHRAAVTGQDEAIRFLVCGLGIDVDVRAK
 SSQLTALLYAAKEGQTSTVQTLTLLSLGADINSTDERNRSALHLACAGQHAACARFLRQSGLKDSADLTGAL
 AQLTRGVAILQDFDPGVKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

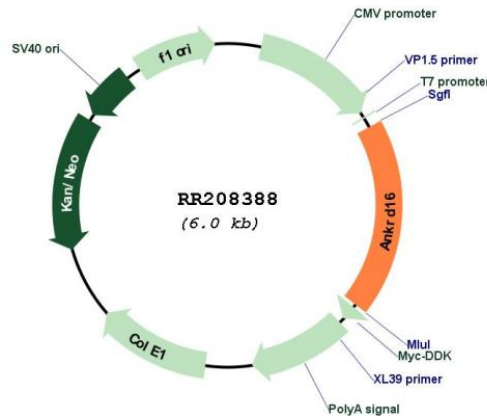
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001033698

ORF Size:	1110 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:	<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_001033698.1 , NP_001028870.1
RefSeq Size:	1378 bp
RefSeq ORF:	1113 bp
Locus ID:	307102
UniProt ID:	Q499M5
Cytogenetics:	17q12.2
MW:	40.6 kDa
Gene Summary:	Required to prevent the misactivation of serine (Ser) with tRNA(Ala) by promoting the hydrolysis of Ser-mischarged tRNA(Ala), thereby playing a role in translational fidelity. Binds directly to the catalytic domain of AARS/AlaRS and captures Ser that is misactivated by AARS/AlaRS, preventing the charging of Ser adenylates to tRNA(Ala) and precluding Ser misincorporation in nascent peptides.[UniProtKB/Swiss-Prot Function]