

Product datasheet for **RN208388**

Ankrd16 (NM_001033698) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ankrd16 (NM_001033698) Rat Untagged Clone
Tag: Tag Free
Symbol: Ankrd16
Synonyms: MGC124844
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN208388 representing NM_001033698
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCCGCCTGGGGATCCGAGGCGTCTCTGCAGGCTGGTGCAGGAGGGCCAGCTGCGCGCCCTGCGGG
AAGAGCTGGAGGTAGCTGGAGGTTGCTGGGATCCAGAGATGTTCCGAGGCAGCCAAGGGCCAGCTGGGGA
CACCCCTTCTCACTTCGCATCACGCCACGGCGCCAGGACATCCTAGCGTACCTAGTGGAGGCTTGGAGT
ATGGACATCGAGGCCGCCAACCGAGACTACAAGCGGCCTCTGCACGAAGCTGCCTCAATGGGCCACCGGG
ACTGCGTGCCTACCTCCTGGGCGAGGTGCAGTGGTGGACTCCTTGAAGAAGGGCGGACTGGACTCCTCT
GATGATGGCTTGACAAGGAAGAACCTTGGAGGTGATCCAGGACCTTGTAGAACACGGTGCCAACCCACTC
CTGAAGAACAAGGATGGCTGGAACAGTTTCCACATTGCCAGCAGGGAAGGCGACCCTGTGATCCTCCGGT
ACTTGCTCACTGTCTGCCAGACGTTTGGAAAACAGAGAGCAAAATCAGAAGAATCCTTTACACACTGC
AGCAATGCACGGCTGTTTCGAAGCAGTCCAGGAGCTTCTTGAGAGATGTCACTATGAACCAGACTGTAGA
GACAATGTGGCGTCACACCCCTCATGGATGCAATTCAGTGCGGCCATGTCAGCATAGCCAAAGCTGCTCC
TTGAAAACACGAGGCTTGCTCTTCAGCTACAGATAGTCTGGGGGCCAGGCTCTACACCGAGCAGCAT
CACTGGGCAGGATGAAGCCATCCGATTCCTGGTGTGCGGTCTTGGCATTGATGTCGATGTGAGAGCAAAG
TCAAGCCAGCTCACAGCCTTCTTTATGCAGCGAAGGAAGGACAGACGAGCACAGTTCAAACCTCTGTTGT
CCTTGGGTGCCGACATCAACTCCACAGATGAACGAAATCGCTCAGCCCTGCATCTGGCCTGTGCAGGTCA
GCACGCGGCTTGCAGGTTCTCCGACAGTCAAGGCTGAAGGATTCTGCAGACCTAACAGGCGCCTTG
GCCAGCAACTCACGAGGGCGTGGCTATCCTTCAGGACTTTGACCCCGCGTGAAGTCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033698



Insert Size:	1113 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001033698.1</u> , <u>NP_001028870.1</u>
RefSeq Size:	1378 bp
RefSeq ORF:	1113 bp
Locus ID:	307102
UniProt ID:	<u>Q499M5</u>
Cytogenetics:	17q12.2
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]