OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC214483

Ankrd16 (NM_177268) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ankrd16 (NM_177268) Mouse Untagged Clone

Tag: Tag Free

Symbol: Ankrd16

Synonyms: 2810455F06Rik; AI646698; D430029B21Rik

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

Fully Sequenced ORF:

>MC214483 representing NM_177268
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTGCCTGGGGATCCGCGGCGCCTCTGCAGGCTGGTGCAAGAGGGCCGACTGCGTGACCTTCAGG
AGGAACTGGCGGTAGCTAGAGGTTGCCGGGGGCCAGCCGGAGACACCCTTCTCCACTGTGCAGCACGCCA
CGGACGCCAGGATATCCTAGCGTACCTAGTGGAGGCTTGGAGTATGGACATCGAGGCTACCAACCGAGAC
TACAAGCGGCCTCTGCACGAAGCTGCCTCTATGGGCCACCGGGACTGCGTGCGCTACCTCCTGGGCCGAG
GTGCAGTCGTGGACTCCTTGAAGAAGGCGGACTGGACTCCTCTGATGATGGCGTGCACAAGGAAGAACCT
TGATGTGATCCAGGACCTTGTAGAACACGGTGCCAATCCACTCCTGAAGAACAAGGATGGCTGGAACAGT
TTCCACATTGCCAGTAGAGAAGGCCACCCTGTGATCCTCCGGTACTTGCTCACTGTCTGCCCTGATGCTT
GGAAAACAGAGAGCAACATTAGAAGAACCCCTTTACACACTGCAGCAATGCACGGCTGTTTGGAAGCAGT
CCAGGTGCTTCTTGAAAGGTGTCACTATGAACCAGACTGTCGAGACAACTGTGGTGTCACGCCCTTCATG
GATGCAATTCAGTGTGGCCATGTTAGTATAGCCAAGCTGCTCCTTGAACAGCATAAGGCTTGCTCTTCAG
CTGCAGATAGCATGGGGGCCCAGGCTCTACACCGCGCAGCAGTCACTGGGCAGGATGAAGCCATACGGTT
CCTGGTATGCGGTCTTGGCATCGATGTAGATGTAAGAGCAAAGTCAAGCCAGCTCACAGCACTTCACTAT
GCAGCAAAGGAAGGACAGACGAATACAGTTCAAACTCTGTTGTCCTTGGGTGCCGACATCAACTCTACAG
ATGAAAGAAATCGCTCAGTCCTGCATCTGGCCTGCGCAGGTCAGCATGTGGCTTGCACCAGGCTCCTCCT
ACAGTCGGGACTGAAGGATTCCGAAGACCTCACAGGCACCTTGGCCCAGCAGCTCACGAGAAGCGTAGAT
ATCCTTCAGGACTTTGACCATGACGTGAAATCGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_177268

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Insert Size:	1086 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:	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_177268.4, NP_796242.2
RefSeq Size:	2356 bp
RefSeq ORF:	1086 bp
Locus ID:	320816
UniProt ID:	A2AS55
Cytogenetics:	2 A1
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 (PubMed:29769718). 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 (PubMed:29769718). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.