

Product datasheet for **MG219138**

Ankrd16 (NM_177268) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ankrd16 (NM_177268) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ankrd16
Synonyms: 2810455F06Rik; AI646698; D430029B21Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219138 representing NM_177268
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCTGCCTGGGGATCCGCGGCGCCTCTGCAGGCTGGTGCAAGAGGGCCGACTGCGTGACCTTCAGG
 AGGAACTGGCGGTAGCTAGAGGTTGCCGGGGCCAGCCGGAGACACCCCTTCTCCACTGTGCAGCACGCCA
 CGGACGCCAGGATATCCTAGCGTACCTAGTGGAGGCTTGAGTATGGACATCGAGGCTACCAACCGAGAC
 TACAAGCGGCCTCTGCACGAAGCTGCCTCTATGGGCCACCGGACTGCGTGGCTACCTCCTGGGCCGAG
 GTGCAGTCGTGGACTCCTTGAAGAAGCGGACTGGACTCCTCTGATGATGGCGTGACAAGGAAGAACCT
 TGATGTGATCCAGGACCTTGTAGAACACGGTGCCAATCCACTCCTGAAGAACAAGGATGGCTGGAACAGT
 TTCCACATTGCCAGTAGAGAAGGCCACCCCTGTGATCCTCCGGTACTTGCTCACTGTCTGCCTGATGCTT
 GGAAAACAGAGCAACATTAGAAGAACCCTTTACACTGCAGCAATGCACGGCTGTTTGAAGCAGT
 CCAGGTGCTTCTTGAAAGGTGTCACTATGAACCAGACTGTCGAGACAACCTGTGGTGTACGCCCTTCATG
 GATGCAATTCAGTGTGGCCATGTTAGTATAGCCAAGCTGCTCCTTGAACAGCATAAAGGCTTGCTCTTCAG
 CTGCAGATAGCATGGGGGCCAGGCTCTACACCGCGCAGCAGTCACTGGGCAGGATGAAGCCATACGGTT
 CCTGGTATGCGGTCTTGGCATCGATGTAGATGTAAGAGCAAAGTCAAGCCAGCTCACAGCACTTCACTAT
 GCAGCAAAGGAAGGACAGACGAATACAGTTCAAACCTCTGTTGCTTGGGTGCCGACATCAACTACAG
 ATGAAAGAAATCGCTCAGTCTGCATCTGGCCTGCGCAGGTGAGCATGTGGCTTGACCAGGCTCCTCCT
 ACAGTCGGGACTGAAGGATTCGGAAGACCTCACAGGCACCTTGGCCAGCAGCTCACGAGAAGCGTAGAT
 ATCCTTCAGGACTTTGACCATGACGTGAAATCG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219138 representing NM_177268
 Red=Cloning site Green=Tags(s)

MALPGDPRRLCRLVQEGRLRDLQEELAVARGCRGPAGDTLLHCAARHGRQDILAYLVEAWSMDIEATNRD
 YKRPLHEAASMGHRDCVRYLLGRGAVVDSLKKADWTPLMMACTRKNLDVIQDLVEHGANPLLKKNKDGWNS
 FHIASREGHPVILRYLLTVCPDAWKTESNIRRTPLHTAAMHGCLEAVQVLLERCHYEPDCRDNCGVTPFM
 DAIQCGHVSIAKLLLEQHKACSSAADSMGAQALHRAAVTGQDEAIRFLVCGLGIDVDVRKSSQLTALHY
 AAKEGQNTVQTLTSLGADINSTDERNRSYLHLACAGQHVACTRLLLQSGLKDSEDLTGTLAQLTRSVD
 ILQDFDHDVKS

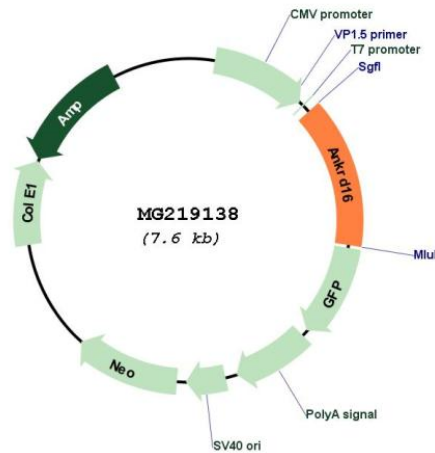
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177268

ORF Size:	1083 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_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]