

Product datasheet for **MG204538**

Akr1b10 (NM_172398) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akr1b10 (NM_172398) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Akr1b10
Synonyms:	2310005E10Rik; Akr1b16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204538 representing NM_172398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCTTCGTGACGCTCCTACCGGAGCCAAGATGCCATTGTGGGCCTGGGCACCTGGAAGTCTC
CCCCAGCTAAAGTCAGGGAAGCTGTGAAGGTGGCCATTGATGCTGGGTATCGCCACATTGATTGTGCCTA
TGTCTATCAGAAATGAGAGCGAGGTGGGAGAAGCCATCCAAGAGAAGATCCAGGAGAAGGCTGTGAAGCGG
GAGGACCTCTTCATCGTCAGCAAGCTGTGGTCCACCTCTTTGAGAAAAGCCTGGTGAAGAAAGCCTTCC
AGAACACCCTCTCGGATCTGAAGCTTGACTACCTGGACCTGTATCTAATCCACTGGCCACAGGGATTCA
GTCTGAAATGTCTTTTTACCCACAGATGATAAAGGCAGTATTCTCAGCAGTAAATATACGTTCTTGAT
GCTTGGGAGGCCATGGAGAACTGGTGGACCAGGACTGGTAAAAGCTCTGGGTGTCTCCAACCTCAACC
ACTTCCAGATTGAAAGGCTCCTGAACAAGCCTGGACTGAAACATAAGCCAGTGACCAACCAGGTTGAGTG
TCACCCCTACCTACCCAGGAAAACTGACCCAGTACTGTCACTCCAAGGGCATCACCATCACAGCCTAC
AGTCCCTGGGCTCCCCAGACAGGCCTAGTGCCAAACCAGAGGACCCCTATTACTGGAGATTCCAAGA
TCAAAGAGATTGCTGCAAAGCACAAGAAGACTGCAGCACAGGTTCTGATTGCGTTCCATATAGAGAGGAA
CGTGGTGGTATCCCCAAGTCTGTGACACCTTCTCGAATACAGGAGAACATTGAGTCTTCGACTCCAG
TTAAGTGAGGAGACATGGCCGCCATTCTCAGTTCAACAGGAACTGGAGGGCCTGTGGCCTGTTTGCAG
CAAGTCATAACGAGGACTTCCCTTCCATGCGGAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204538 representing NM_172398
 Red=Cloning site Green=Tags(s)

MAAFVTLT LGAKMPIVGLGTWKSPPAKVREAVKVAIDAGYRHIDCAYVYQNESEVGEAIQEKIQEKAVKR
 EDLFI VSKLWSTFFEKSLVKKAFQNTLSDLKLDYLDLYL IHWPGFQSGNVFLPTDDKGSILSSKYTFLD
 AWEAMEELVDQGLVKALGVSNFNHFQIERLLNKPGLKHKPVTNQVECHPYLTQEKLTQYCHSKGITITAY
 SPLGSPDRPSAKPEDPLLEIPKIKEIAAKHKKTA AQVLIRFHIERNVVVIPKSVTPSRIQENIQVDFDQ
 LSEEDMAAILSFNRRNWRACGLFAASHNEDFPFHAEY

TRTRPLE - GFP Tag - V

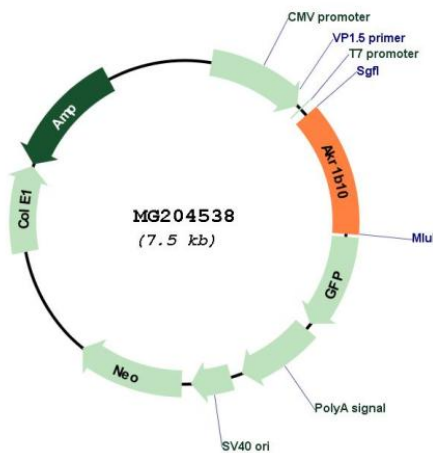
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_172398

ORF Size: 948 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_172398.2
RefSeq Size:	1341 bp
RefSeq ORF:	951 bp
Locus ID:	67861
Cytogenetics:	6 B1