

Product datasheet for **MG204542**

Akr1b8 (NM_008012) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Akr1b8 (NM_008012) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Akr1b8 |
| Synonyms: | Fgfrp; Fgrp; FR-1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204542 representing NM_008012 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGTTTCGTGGAACCTCAGTACCAAAGCCAAGATGCCCATTTGTGGGCCTGGGCACCTGGAAGTCTC
CCCCAAACCAAGTCAAAGAAGCTGTGAAGGCGGCCATTGACGCTGGGTATCGCCATATCGACTGCGCGTA
TGCTATTGCAACGAGAATGAGGTGGGAGAAGCCATCCAAGAGAAGATCAAAGAGAAGGCTGTGCAGCGG
GAGGACCTCTTCATTGTCAGCAAGCTGTGGCCACCTGCTTTGAGAAGAACTGCTAAAGGAAGCCTTTT
AGAAGACCCTCACGGATCTGAAGCTGGACTATTTGGACCTCTATCTTATTCACTGGCCACAGGGACTTCA
GCCAGGAAAGGAGTTATTCCTCCAAAGATGACCAAGGCAGAAATCCTCACCAGTAAGACAACATTCTTGAA
GCCTGGGAGGGCATGGAGGAACTGGTGGACCAGGGCTGGTAAAAGCTCTGGGCGTCTCCAACCTCAACC
ACTTCCAGATTGAAAGGCTCCTGAACAAGCCTGGACTAAAACATAAGCCAGTGACCAACCAGGTTGAGTG
TCATCCTTACCTCACCCAGGAAAACTGATCCAGTACTGTCACTCGAAGGGCATCTGTCACTGCCTAC
AGTCCCCTGGGCTCCCCAGACAGGCCTAGCGCCAAGCCAGAGGACCCTTCACTATTAGAGGACCCAAAA
TTAAAGAGATTGCCGCCAAGCACAAGAAAACCTCAGCCCAGGTTCTGATTTCGTTTCACATCCAGAGGAA
CGTGGTGGTATCCCGAAGTCTGTGACGCCATCACGTATACAGGAGAACATTCAGGTCTTTGATTCCAG
TTGAGTGACGAGGAGATGGCCACTATCCTTAGCTTCAACAGAAAACCTGGAGGGCCTGCCTGCTGCCTGAGA
CAGTAAACATGGAAGAATATCCCTATGATGCAGAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204542 representing NM_008012
 Red=Cloning site Green=Tags(s)

MATFVELSTKAKMPIVGLGTWKSPPNQVKEAVKAAIDAGYRHIDCAYAYCNENEVGEAIQEKIKEKAVQR
 EDLFIIVSKLWPTCFEKKLLKEAFQKTLTDLKLDYLDLYLIHWPQGLQPGKELFPKDDQGRILTSKTTFLE
 AWEGMEELVDQGLVKALGVSNNHFQIERLLNKPGLKHKPVTNQVECHPYLTQEKLIQYCHSKGISVTAY
 SPLGSPDRPSAKPEDPSLLEDPKIKEIAAKHKKTSQAQVLRFHIIQRNVVVIPKSVTPSRIQENIQVDFDQ
 LSDEEMATILSFNRNWRACLLEPETVNMEEYPYDAEY

TRTRPLE - GFP Tag - V

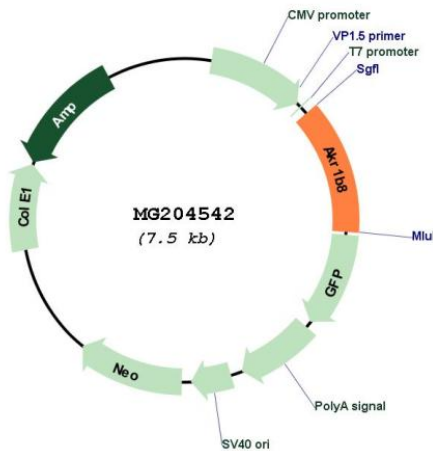
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_008012

ORF Size: 948 bp

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|-------------------------------|---|
| 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_008012.1 , NP_032038.1 |
| RefSeq Size: | 1304 bp |
| RefSeq ORF: | 951 bp |
| Locus ID: | 14187 |
| UniProt ID: | P45377 |
| Cytogenetics: | 6 14.91 cM |