

Product datasheet for **MG204191**

Akr1e1 (NM_018859) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Akr1e1 (NM_018859) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Akr1e1 |
| Synonyms: | 1810061110Rik; Akr1e2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204191 representing NM_018859 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAACATCCCTACAGTGGGCTTGGGCACCTGGAAGGCCTCCCAGGAGAAGTGACTGATGCAGTTA
AGTTGGCTATCAACCTGGGCTACCGCACTTCGATTGTGCTTACTTATACCACAATGAGAGCGAGGTGGG
AATGGGAATCAGTGAGAAGATCAAGGAGGGCGTGGTGAAGAGAGAGGATCTCTTTGTAGTCAGTAAGCTG
TGGTGTACCTGCCACAAGAAGTCATTGGTAAAACAGCATGCACCAATACCCTGGAAGCCCTAAACTTGG
ATTACCTGGACCTCTACCTCATACTGGCCCATGGGTTTCAAGCCTGGGAAAAAGATATCCCTTTGGA
TCGAATGGCAAGGTCATACCCAGTCACACCAGCTTTCTTGACACTTGGGAGGCCATGGAGGACCTGGTG
TTTGAGGGTCTGGTGAAGAACCTTGGGGTGTCCAACCTTAACCATGAACAGCTTGAGAGGCTTTTGATA
AGCCTGGTTTGAGAGTCAGGCCGATAACTAACCAGATTGAATGTCACCCATATCTTAATCAAAAAGAGCT
GATTGATTTTTGCCATAAAAAGAAATGTGTCTGTGACTGCTTACCGTCCCCTCGGTGGCTCAGGAGGTGGG
TTTCACTTGATGGATGATACTGTCATTCGAAAGATTGCAAAGAAGCATGGGAAGTCTCCTGCTCAGATTT
TGATCCGATTTGATCCAAAGGAACCTAATAGTGATCCCAAACTGTGACCCCAAGTCGGATTAGAGA
GAATATCCAGGTATTTGATTTTGAATTAAGTAAAAAGATATGGAGGAACCTCAGCCTAGACAAGAAC
CTCCGTTTGGCCACATTTCCCAACTGAAAATCACCAGACTATCCTTTCCACATAGAGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204191 representing NM_018859
 Red=Cloning site Green=Tags(s)

MENIPTVGLGTWKASPGEVTDVAVKLAINLGYRHFDCAYLYHNESEVGMGISEKIKEGVVKREDLFVVSKL
 WCTCHKKSLVKTACTNLTLEALNLDYLDLYLIHWPMGFKPEKDIPLDRNGKVIPSHTSFLDTWEAMEDLV
 FEGLVKNLGVSNFNHEQLERLLDKPGLRVRPITNQIECHPYLNQKKLIDFCHKRNVSVTAYRPLGGSGGG
 FHLMDDTVIRKIAKKHKGSPAQILIRFQIQRNLIVIPKSVTPSRIRENIQVDFDELTEKDMEELLSLDKN
 LRLATFPPTTENHQDYPPFHIEY

TRTRPLE - GFP Tag - V

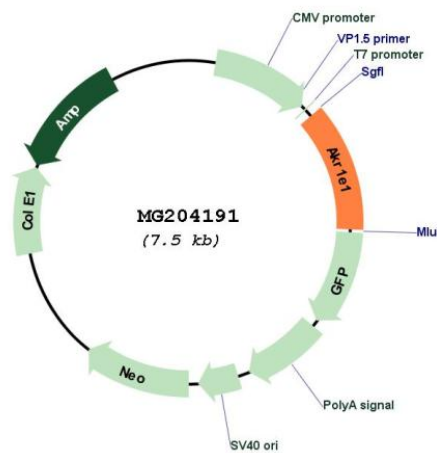
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_018859

ORF Size: 903 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_018859.2 , NP_061347.2 |
| RefSeq Size: | 1729 bp |
| RefSeq ORF: | 906 bp |
| Locus ID: | 56043 |
| UniProt ID: | Q9DCT1 |
| Cytogenetics: | 13 A1 |
| Gene Summary: | Catalyzes the NADPH-dependent reduction of 1,5-anhydro-D-fructose (AF) to 1,5-anhydro-D-glucitol.[UniProtKB/Swiss-Prot Function] |