

Product datasheet for **MG207201**

Acad8 (NM_025862) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acad8 (NM_025862) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Acad8
Synonyms: 2310016C19Rik; AI786953
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG207201 representing NM_025862
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGATGTTGCGGTCCGGCTACCGCGCTTTGGCTGTCTGCGCGGGCACTCAAGTCCCTGGCTCAGA
CCCACCACCGGAGCATCACCTTCTGCATCGATCCTTCTTGGGGCTAAATGAAGAACAGAAAGGATTTCA
GAAAGTGGCCTTTGACTTTGCAGCTCGGAAATGGCTCCCAATATGGCGGAGTGGGATCAGAAGGAGCTG
TTCCCTGTGGATGTGATCGGAAGGCTGCACAGCTGGGATTTGGGGGGTCTATGTGCGAACAGATGTGG
GTGGATCTGGACTGTCTGCCTTGATACTTCTGTCTCATCTTTGAAGCCTTGCCACAGGCTGCACCAGCAC
CACTGCCTATATAAGCATCCACAACATGTGTGCCTGGATGATTGATAGCTTTGAAATGAGGAACAGAGG
CACAAATTTGGCCACCGCTCTGTACCATGGAGAAGTTTCTTCTACTGCCTCACTGAACCAGGCAAGT
GGAGTGATGCTGCATCTTCTGACCTCAGCTAAACAACAAGGAGATCATTACATCCTCAATGGTTCCAA
GGCCTTCATCAGTGGGGAGGTGAGTCAGACATCTATGTGGTCATGTGCCGAAGTGGTGGTCTGGCGCC
AAAGGTATCTCCTGCATAGTTGTTGAGAAAGGAACCCCTGGTCTCAGCTTTGGCAAGAAGGAGAAGG
TGGGGTGAAGTGCAGCAACCCGAGCAGTGATCTTTGAAGACTGTGCTGTCCCTGTGGCAACAGGAT
TGGGACCGAGGGGAGGGTTTTCTCATGCCATGAAAGGACTGAATGGTGAAGGATCAATGTTGCATCC
TGCTCTCTGGGAGCCGCTCATGCTTCAAGTATCCCTAACCAAGAACACCTCAAGTCCGCAAGCAGTTTG
GAGCACCTTTGGCCAGAAGCCAGTACCTCCAATTCAGTTGGCAGATATGGCCACCAAGCTAGTTGCTTC
CCGGCTGATGATCCGTAAGTGCAGCAGTGGCTTTGCAGGAAGAGCGGGAAGATGCAGTGGCCCTGTGTTCC
ATGGCCAAGTCTTTGCTACAGAGGAGTCTTTGCTATCTGCAACCAGGCTTTGCAGATGCATGGGGCT
ACGGCTATCTGAAGGACTATGCTGTTCAACAGTATATGCGGGACTCCAGGGTCCACCAGATCCTAGAAGG
TAGCAATGAAGTATGAGGATGCTGATCTCTCGAAACCTGCTTCAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207201 representing NM_025862
Red=Cloning site Green=Tags(s)

MAMLRSGYRRFGCLRAALKSLAQTHRSITFCIDPSLGLNEEQKGFQKVAFDFAAREMAPNMAEWDQKEL
 FPVDVMRKAQQLGFGVYVRTDVGGSLRLDTSVIFEALATGCTSTTAYISIHNCAMMIDSFSGNEEQR
 HKFCPPLCTMEKFASYCLTEPGSGSDAASLLTSAKQQGDHYILNGSKAFISGGGESDIYVMCRTGGSGA
 KGISCIIVVEKGTPLSFGKKEKKGWNSQPTRAVIFEDCAVPVANRIGTEGQGLIAMKGLNGGRINVAS
 CSLGAAHASVILTQEHLKVRKQFGAPLARSQYLQFLADMATKLVASRLMIRTAVALQEEREDAVALCS
 MAKLFATEECFAICNQALQMHHGGYGLKDYAVQQYMRDSRVHQILEGSNEVMRMLISRNLQD

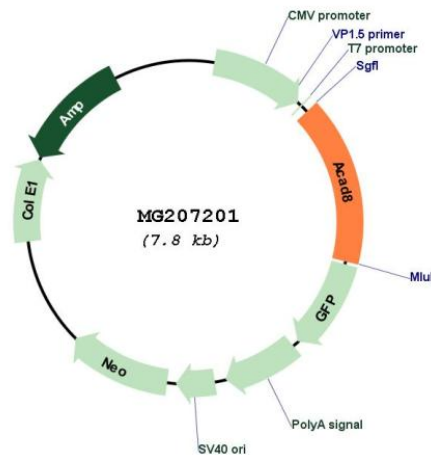
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025862

| | |
|-------------------------------|---|
| ORF Size: | 1239 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_025862.2 , NP_080138.2 |
| RefSeq Size: | 2865 bp |
| RefSeq ORF: | 1242 bp |
| Locus ID: | 66948 |
| UniProt ID: | Q9D7B6 |
| Cytogenetics: | 9 A4 |
| Gene Summary: | Has very high activity toward isobutyryl-CoA. Is an isobutyryl-CoA dehydrogenase that functions in valine catabolism (By similarity).[UniProtKB/Swiss-Prot Function] |