

Product datasheet for **RR208325**

Acta2 (NM_031004) Rat Tagged ORF Clone

Product data:

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|--------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Acta2 (NM_031004) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Acta2 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RR208325 representing NM_031004 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGAAGAGGAAGACAGCACAGCTCTGGTGTGTGACAATGGCTCCGGCTCTGTAAGGCGGGCTTTG
CTGGTGATGATGCTCCCAGGGCTGTTTTCCCATCCATCGTGGGACGTCCCAGACACCCAGGGAGTGATGGT
TGAATGGGCCAAAAGGACAGCTATGTGGGGACGAAGCGCAGAGCAAGAGAGGGATCCTGACCCTGAAG
TATCCGATAGAACACGGCATCATCACCAACTGGGACGACATGGAAAAGATCTGGCACCACTCCTTCTATA
ACGAGCTTCGCGTGGCCCCAGAGGAGCATCCGACCTTGCTAACGAGGGCCCGCTGAACCCTAAGGCCAA
CCGGGAGAAAATGACCCAGATTATGTTTGGACCTTCAATGTCCCTGCCATGTATGTGGCTATTCAGGCT
GTGCTGTCCCTCTATGCTTCTGGACGTACAACCTGGTATTGTGCTGGACTCTGGAGATGGCGTGACTCACA
ACGTGCCTATCTATGAGGGCTATGCTCTGCCTCATGCCATCATGCGTCTGGACTTGGCTGGCCGAGATCT
CACCGACTACCTCATGAAGATCCTGACTGAGCGTGGCTATTCCTTCGTGACTACTGCTGAGCGTGAGATC
GTCCGTGACATCAAGGAGAAGCTGTGCTATGTCGCTCTGGACTTTGAAAATGAGATGGCCACTGCTGCTT
CCTCTTCTCCCTGGAGAAGAGCTACGAACTGCCTGATGGCAGGTGATCACCATCGGGAATGAACGCTT
CCGCTGCCCGGAGACCCTCTCCAGCCATCTTTCATTGGAATGGAGTCGGCGGGCATCCACGAAACCACC
TATAACAGCATCATGAAGTGTGATATTGACATCAGGAAGGACCTCTATGCTAACAAACGCTCTCTCGGGG
GCACTACCATGTACCCAGGCATTGCTGACAGGATGCAGAAGGAGATCACAGCCCTCGCTCCCAGCACCAT
GAAGATCAAGATTATTGCTCCTCCAGAACGCAAAATATTCTGTCTGGATCGGCGGCTCCATCCTGGCTTCT
CTATCTACCTCCAGCAGATGTGGATCAGCAAACAGGAGTATGACGAAGCTGGCCCTCCATTGTCCACC
GCAATGCTTC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208325 representing NM_031004
 Red=Cloning site Green=Tags(s)

MCEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPISVGRPRHQVMVGMGQKDSYVGDEAQSQRGILTLK
 YPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQA
 VLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREI
 VRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETT
 YNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILAS
 LSTFQQMWISKQEYDEAGPSIVHRKCF

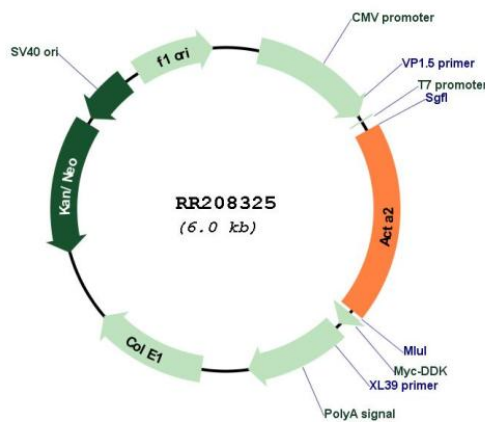
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031004

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|-------------------------------|---|
| ORF Size: | 1131 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_031004.2 , NP_112266.1 |
| RefSeq Size: | 1412 bp |
| RefSeq ORF: | 1134 bp |
| Locus ID: | 81633 |
| UniProt ID: | P62738 |
| Cytogenetics: | 1q52 |
| MW: | 42 kDa |
| Gene Summary: | contractile protein; required for extracellular matrix remodeling [RGD, Feb 2006] |