

Product datasheet for **RR217307**

Actn2 (NM_001170325) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actn2 (NM_001170325) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actn2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR217307 representing NM_001170325
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCAGATAGAGCCCGCGTGCAGTACAACACTATGTCTACGACGAAGATGAGTACATGATCCAGGAGG
 AGGAGTGGGACCGCGACCTGCTCCTCGACCCGGCTGGGAGAAGCAGCAGAGGAAGACTTTCACCTGCCTG
 GTGCAACTCGCACCTGCGCAAAGCCGGCACCCAGATCGAGAACATAGAGGAGGATTTTCAGGAATGCCTC
 AAGCTCATGCTGCTTCTGGAAGTCATCTCAGGGGAAAGGCTTCCCAAACCTGACCGGGGCAAATGCGGT
 TCCACAAGATTGCGAATGTCAACAAGGCTTTGGATTACATAGCCAGCAAGGGAGTGAAATGGTATCTAT
 TGGGGCTGAAGAAATCGTCGATGGCAATGTGAAGATGACCCTGGGTATGATCTGGACCATCATCTCCGC
 TTCGCCATTCCAGGACATCTCAGTGAAGAAACATCTGCCAAAGAGGGCCTGCTGCTATGGTGTGAGGGA
 AGACAGCACCATACCGAAATGTGAACATCCAGAACTTCCACACCAGCTGGAAAGATGGCCTTGGACTCTG
 TGCCCTCATCCACAGACCCGGCCTGACCTCATCGACTACTCAAAGCTTAAACAAGGATGACCCCATAGGA
 AACATTAACCTGGCCATGGAAATAGCAGAGAAGCACTTGGATATCCCTAAAATGTTGGATGCTGAAGACA
 TTGTCAACACTCCCAAACCCGATGAAAGAGCCATCATGACTTACGTTTCTGCTTCTACCATGCTTTCGC
 GGGAGCGGAGCAGGCCGAGACGGCAGCTAACAGGATATGTAAGGTTCTTGCTGTGAATCAAGAGAATGAG
 AGGCTGATGGAAGAATATGAGAGGCTAGCGAGTGAAGTCTTGGAAATGGATTCGACGCACAATCCCCTGGC
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 AAGCTTCGGATCAGCAACCGGCCTGCCTTCATGCCCTCCGAGGGCAAGATGGTGTGCGACATTGCTGGTG
 CCTGGCAGAGGTTGGAGCAGGCCGAGAAGGGCTATGAGGAATGGCTATTGAATGAGATTCGAATTCGAA
 GCGCTTGGAGCACTTGGCTGAGAAGTTACAGGCAGAAGGCCCTCCACCCATGAGACATGGGCTTACGGCAA
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 ACGAGGCCCTTGAGAGTGACCTGGCGGCACACCAGGATCGTGTGGAACAGATTGCAGCCATTGCTCAGGA
 GCTCAATGAAGTGGACTACCACGATGCTGTGAACGTCAATGATCGTTGCCAGAAAATTTGCGACCAGTGG
 GATAGATTGGGGACGCTCACCCAGAAGAGGAGGGAGGCCCTGGAGAGAACCAGAAAGTTGCTAGAAAACA
 TTGACCAGCTGCACCTGGAGTTTGCCAAGAGAGCTGCGCCCTTCAACAAGTGGATGGAGGGCGCCATGGA
 GGACCTGCAGGACATGTTTCATCGTCCACAGCATTGAGGAGATCCAGAGTCTGATCACCGCACATGAGCAG
 TTCAAGGCCACGCTGCCCGAGGCCGATGGGGAGCGGCAGTCCATCCTAGCCATCCAGAATGAGGTGGAGA
 AGGTGATCCAGAGCTACAGTATCCGGATCAGCTCCAGCAACCCCTACAGCACTGTACCATGGACGAGCT
 GCGCAACAAGTGGGACAAGGTGAAGCAGCTGGTGCCAGTCCGGGATCAGTCCCTGCAGGAGGAGCTGGCA
 CGCCAACATGCTAATGAGCGCCTACGGCGCCAGTTTGCTGCCAGGCCAATGCCATCGGCCCTGGATCC
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 CTCATCCAGGAAGCCCTGGTCTTCGACAACAAGCACACCAACTACACCATGGAGCATATCCGTGTCCGAT
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 CAAGGGCATCACCCAGGAGCAGATGAATGAGTTCAGAGCCTCCTTCAACCACTTTGACAGGAGGAAGAAT
 GGCTGATGGATCATGAGGATTTAGAGCCTGCCTCATTTCATGGGCTATGACTTGGGTGAAGCTGAGT
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 CATGACTAGAGAGACCGCAGACACGGACTGCAGAACAGGTCATCGCCTCCTTCCGGATTCTGGCTTCT
 GATAAGCCTTACATCTTGGCAGAGGAACTTCGTCGAGAGTGCCTCCGGATCAGGCCAGTACTGCATCA
 AGAGAATGCCCCATACTCAGGCCAGGCAGTGTCCCGGGGCCCTGGACTACACTGCCTTCTCCTCTGC
 CCTTACGGGGAGAGCGACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217307 representing NM_001170325
Red=Cloning site Green=Tags(s)

MNQIEPGVQYNYVYDEDEYMIQEEEWDRDLLLDPAWEKQQRKFTAWCNSHLRKAGTQIENIEEDFRNGL
KLMLEVISGERLKPDRGKMRFHKIANVNKALDYIASKGVKLVSIGAEEIVDGNVKMTLGMIIWTIILR
FAIQDISVEETSAKEGLLLWCQRKTAPYRNVNIQNFHTSWKDGLGLCALIHRHRPDLIDYSKLNKDDPIG
NINLAMEIAEKHLDIPKMLDAEDIVNTPKPDERAIMTYVSCFYHAFAGAEQAETAANRICKVLAVNQENE
RLMEEYERLASELLEWIRRTIPWLENRTPEKTMQAMQKLEDFRDYRRKHKPPKVQEKCLEINFNTLQT
KLRISNRPAFMPSEGKMSVSDIAGAWQRLEQAEGYEWLLNEIRRLERLEHLAEKFRQKASTHETWAYGK
EQILLQKDYESASLTVRALLRKHEAFESDLAAHQDRVEQIAAIAQELNELDYHDAVNVNDRQCQKICDQW
DRLGTLTQKRREALERTEKLETTIDQLHLEFAKRAAPFNWMEGAMEDLQDMFIVHSIEEIQSLITAHEQ
FKATLPEADGERQSILAIQNEVEKVIQSYISIRISSNPYSTVTMDELRNKWDKVKQLVPVRDQSLQEELA
RQHANERLRRQFAAQANAIGPWIQNKMEEIARSSIQITGALEDQMNQLKQYEHNIINYKNNIDKLEGDHQ
LIQEALVFDNKHTNYTMEHIRVGWELLLTTIARTINEVETQILTRDAKGITQEQMNEFRASFNFDRRKN
GLMDHEDFRACLISMGYDLGAEFARIMTLVDPNGQGTVTFQSFIDFMTRETADTDTAEQVIASFRILAS
DKPYILAEELRRELPPDQAQYCIKRMPPYSGPGSVPGALDYTAFSSALYGESDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

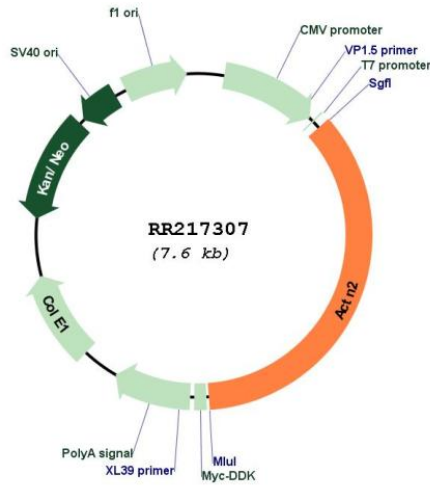
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001170325
ORF Size:	2682 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_001170325.1 , NP_001163796.1
RefSeq Size:	2943 bp
RefSeq ORF:	2685 bp
Locus ID:	291245
Cytogenetics:	17q12.1
MW:	103.8 kDa