

Product datasheet for MR203221

Sirt7 (NM_153056) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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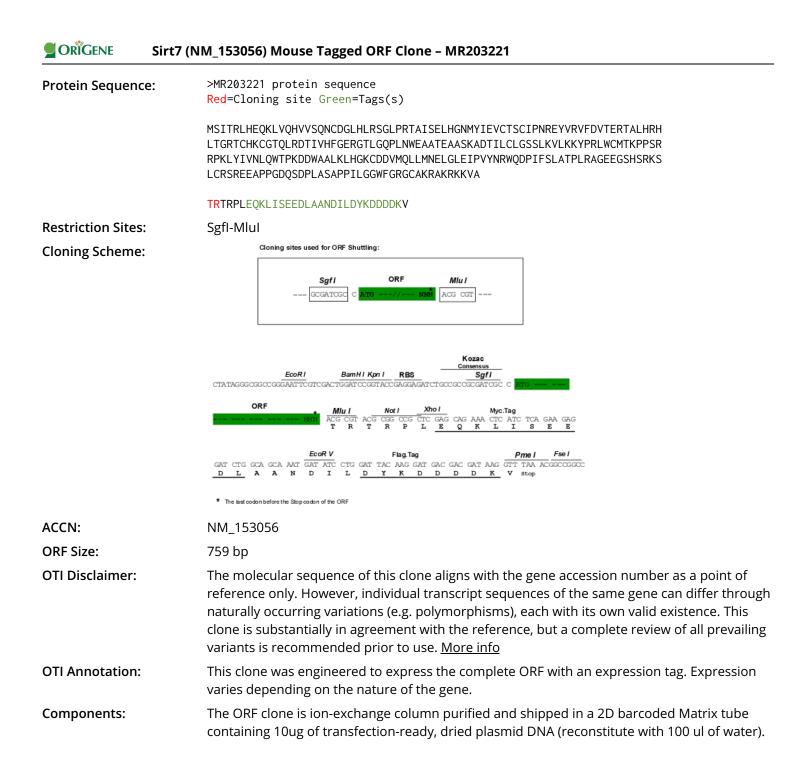
| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | Sirt7 (NM_153056) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Sirt7 |
| Synonyms: | MGC31235; MGC37560 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR203221 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |

ATGAGCATCACCCGTTTGCATGAGCAAAAGCTGGTGCAACACGTGGTGTCTCAGAACTGTGATGGGCTCC ACCTGCGGAGTGGGTTGCCCCGGACCGCCATCTCAGAGCTCCATGGGAATATGTATATTGAAGTCTGCAC CTCCTGCATCCCTAACAGAGAGTATGTACGAGTGTTTGATGTGACTGAGCGTACTGCCCTTCACCGACA CTGACAGGCCGGACCTGCACAAGTGCGGGACCCAGCTTCGGGATACCATTGTGCACTTTGGGGAGAGGG GGACATTAGGGCAGCCTCTGAACTGGGAGGCAGCGACGCAGCGAGGCTGCTAGCAAAGCAGACACAATCCTGTG TTTAGGGTCCAGCTTGAAGGTACTAAAGAAATATCCCCGCCTCTGGTGCATGACGAAGCCTCCAAGCCGT CGACCCAAACTCTACATCGTGAACCTGCAGTGGACCCCGAAGGATGACTGGGCTGCCCTGAAACTCCATG GGAAGTGTGATGATGTCATGCAACTCCTCATGAATGAACTGGGCCTGGAGATTCCTGTCTACAACCGGTG GCAGGATCCAATCTTCCCTTGGCGACCCCCCCTCGGTGAAGAAGGCAGCCACAGTAGGAAGTCA CTATGCAGAAGCAGAGAAGAAGCCCCACCTGGGGACCAGAGTGACCCCTTGCCTCAGCTCCCCTATCC TAGGAGGCTGGTTTGGCAGGGTTGTGCCAAGCGTGCAAAAAGGAAGAAAGTGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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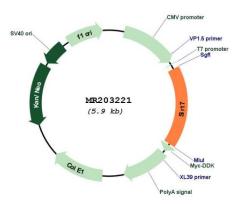
| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 Size: | 1715 bp |
| RefSeq ORF: | 1209 bp |
| Locus ID: | 209011 |
| UniProt ID: | <u>Q8BKJ9</u> |
| Cytogenetics: | 11 E2 |
| MW: | 28.4 kDa |
| Gene Summary: | NAD-dependent protein deacetylase that specifically mediates deacetylation of histone H3 at 'Lys-18' (H3K18Ac). In contrast to other histone deacetylases, displays selectivity for a single histone mark, H3K18Ac, directly linked to control of gene expression. H3K18Ac is mainly present around the transcription start site of genes and has been linked to activation of nuclear hormone receptors. SIRT7 thereby acts as a transcription repressor. Moreover, H3K18 hypoacetylation has been reported as a marker of malignancy in various cancers and seems to maintain the transformed phenotype of cancer cells. These data suggest that SIRT7 may play a key role in oncogenic transformation by suppresses expression of tumor suppressor genes by locus-specific deacetylation of H3K18Ac at promoter regions (By similarity). Required to restore the transcription of ribosomal RNA (rRNA) at the exit from mitosis. Promotes the association of RNA polymerase I with the rDNA promoter region and coding region. Stimulates transcription activity of the RNA polymerase I complex. May also deacetylate p53/TP53 and promotes cell survival, however such data need additional |

confirmation.[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for MR203221

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