

Product datasheet for RC201946

ZNRD2 (NM_006396) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ZNRD2 (NM_006396) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ZNRD2
Synonyms: p27; SSSCA1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201946 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTGAACGGAGCTGAAGTCGACGACTTCTCCTGGGAGCCCCGACTGAGGCGGAGACGAAGGTGC
 TGCAGGCGCGACGGGAGCGGCAAGATCGCATCTCCCGGCTCATGGGCGACTATCTGCTGCGCGTTACCG
 CATGCTGGGCGAGACGTGTGCGGACTGCGGGACGATCCTCCTCCAAGACAAACAGCGGAAAATCTACTGC
 GTGGCTTGT CAGGA ACTCGACTCAGACGTGGATAAAGATAATCCCGCTCTGAATGCCAGGCTGCCCTCT
 CCCAAGCTCGGGAGCACCAGCTGGCCTCAGCCTCAGAGCTCCCCCTGGGCTCTCGACCTGCGCCCCAGCC
 CCCAGTACCTCGTCCGGAGCACTGTGAGGGAGCTGCAGCAGGACTCAAGGCAGCCAGGGGCCACCTGCT
 CCTGCTGTGCCTCCAAATACAGATGTCATGGCCTGCACACAGACAGCCCTCTTGCAAGCTGACCTGGG
 CCTCTGCTGAACTGGGCTCTAGCACCTCCCTGGAGACTAGCATCCAGCTGTGTGGCCTTATCCGCGCATG
 TGCGGAGGCCCTGCGCAGCCTGCAGCAGCTACAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201946 protein sequence
 Red=Cloning site Green=Tags(s)

MALNGAEVDDFSWEPPEAEATKVLQARRERQDRISRLMGDYLLRGYRMLGETCADCGTILLQDKQRKIYC
 VACQELSDVDKDNPALNAQAALSQAREHQLASASELPLGSRPAPQPPVPRPEHCEGAAAGLKAAQGPPA
 PAVPPNTDVMACQTQALLQKL TWASAE LGSSTSLETSIQLCGLIRACAEALRSLQQLQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6305_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006396

ORF Size: 597 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006396.3](#)

RefSeq Size: 661 bp

RefSeq ORF: 600 bp

Locus ID: 10534

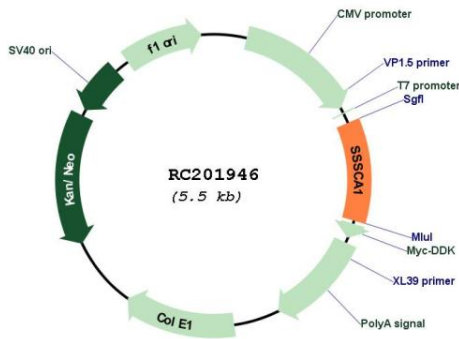
UniProt ID: [O60232](#)

Cytogenetics: 11q13.1

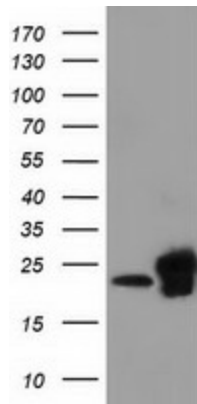
MW: 21.5 kDa

Gene Summary: This antigen is recognized by a subset of anti-centromere antibodies from patients with scleroderma and/or Sjogren's syndrome. Subcellular localization has not yet been established. [provided by RefSeq, Jul 2008]

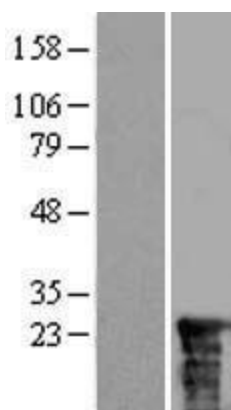
Product images:



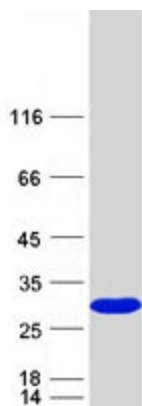
Circular map for RC201946



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SSSCA1 (Cat# RC201946, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SSSCA1 (Cat# [TA501915]). Positive lysates [LY416665] (100ug) and [LC416665] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416665]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201946 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNRD2 protein (Cat# [TP301946]). The protein was produced from HEK293T cells transfected with ZNRD2 cDNA clone (Cat# RC201946) using MegaTran 2.0 (Cat# [TT210002]).