

Product datasheet for RC210193

CRISP3 (NM 006061) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CRISP3 (NM_006061) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: CRISP3

Synonyms: Aeg2; CRISP-3; CRS3; dJ442L6.3; SGP28

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC210193 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ATGACATTATTCCCAGTGCTGTTGTTCCTGGTTGCTGGGCTGCTTCCATCTTTTCCAGCAAATGAAGATA
AGGATCCCGCTTTTACTGCTTTGTTAACCACCCAAACACAAGTGCAAAGGGAGATTGTGAATAAGCACAA
TGAACTGAGGAGAGCAGTATCTCCCCCTGCCAGAAACATGCTGAAGATGGAACAAAGAGGCTGCA
GCAAATGCCCAAAAGTGGGCAAACCAGTGCAATTACAGACACAGTAACCCAAAGGATCGAATGACAAGTC
TAAAATGTGGTGAGAATCTCTACATGTCAAGTGCCTCCAGCTCATGGTCACAAGCAATCCAAAGCTGGTT
TGATGAGTACAATGATTTTGACTTTGGTGTAGGGCCAAAGACTCCCAACGCAGTGGTTGGACATTATACA
CAGGTTGTTTGGTACTCTTCATACCTCGTTGGATGTGGAAATGCCTACTGTCCCAATCAAAAAGTTCTAA
AATACTACTATGTTTGCCAATATTGTCCTGCTGGTAATTGGGCTAATAGACTATATGTCCCTTATGAACA
AGGAGCACCTTGTGCCCAGTTGCCCAGATAACTGTGACGATGGACTATGCACCAATGGTTGCAAGTACGAA
GATCTCTATAGTAACTGTAAAAGTTTGAAGCTCACATTAACCTGTAAACATCAGTTGGTCAGGGACAGTT
GCAAGGCCTCCTGCAATTGTTCAAACAGCATTTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210193 protein sequence

Red=Cloning site Green=Tags(s)

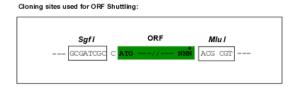
MTLFPVLLFLVAGLLPSFPANEDKDPAFTALLTTQTQVQREIVNKHNELRRAVSPPARNMLKMEWNKEAA ANAQKWANQCNYRHSNPKDRMTSLKCGENLYMSSASSSWSQAIQSWFDEYNDFDFGVGPKTPNAVVGHYT QVVWYSSYLVGCGNAYCPNQKVLKYYYVCQYCPAGNWANRLYVPYEQGAPCASCPDNCDDGLCTNGCKYE DLYSNCKSLKLTLTCKHQLVRDSCKASCNCSNSIY

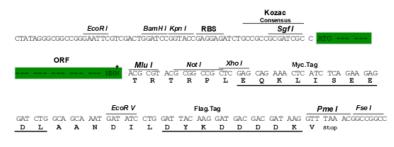
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6375 d01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_006061

ORF Size: 735 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.

RefSeq: <u>NM 006061.1</u>, <u>NP 006052.1</u>

 RefSeq Size:
 2219 bp

 RefSeq ORF:
 777 bp

 Locus ID:
 10321

 UniProt ID:
 P54108

 Cytogenetics:
 6p12.3

 Domains:
 SCP

Protein Families: Secreted Protein

MW: 27.6 kDa

Gene Summary: This gene encodes a member of the cysteine-rich secretory protein (CRISP) family within the

CRISP, antigen 5 and pathogenesis-related 1 proteins superfamily. The encoded protein has an N-terminal CRISP, antigen 5 and pathogenesis-related 1 proteins domain, a hinge region, and a C-terminal ion channel regulator domain. This protein contains cysteine residues,

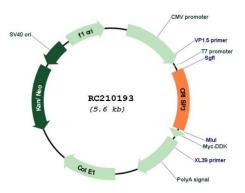
located in both the N- and C-terminal domains, that form eight disulfide bonds, a

distinguishing characteristic of this family. This gene is expressed in the male reproductive tract where it plays a role in sperm function and fertilization, and the female reproductive tract where it plays a role in endometrial receptivity for embryo implantation. This gene is upregulated in certain types of prostate cancer. Alternative splicing results in multiple

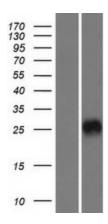
transcript variants. [provided by RefSeq, Nov 2016]



Product images:



Circular map for RC210193



Western blot validation of overexpression lysate (Cat# [LY416894]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210193 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).