

Product datasheet for **RC212061**

CRISP1 (NM_001131) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CRISP1 (NM_001131) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CRISP1 |
| Synonyms: | AEGL1; ARP; CRISP-1; HEL-S-57; HSCRISP1D; HSCRISP1G; HUMARP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC212061 representing NM_001131 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAATTAACACCTCTTGTGTTTTGGTTGCTGCTGCTTACTGCCTATGTTGTCCATGAAAAAGA
 AATCAGCTAGAGACCAATTTAATAAGCTCGTCACCGACTTGCCAAATGTACAAGAAGAGATCGTTAATAT
 ACACAACGCCCTCAGGAGAAGAGTAGTTCCACCAGCCAGCAACATGCTGAAGATGAGTTGGAGTGAAGAG
 GCTGCACAAAATGCCAGAATTTTTCAAAGTATTGTGATATGACAGAGAGCAACCCCTTGAGAGGAGAC
 TTCCAAATACCTTTGTGGAGAAAATATGCATATGACATCTTATCCTGTATCATGGTCAAGTGAATTGG
 AGTCTGGTACAGTGAGTCTACAAGTTTCAAACATGGAGAATGGACAACAACGGATGATGACATAACTACT
 GACCACTACACTCAGATTGTTTGGGCCACATCTTACCTGATTGGCTGTGCCATTGCATCTTGCCGCCAAC
 AAGGATCACCTCGATATCTCTACGTTTGTCACTATTGTCATGAGGGAAATGATCCTGAAACAAAGAATGA
 ACCTTATAAGACAGGCGTCCCATGTGAAGCCTGCCAAGTAAGTGTGAAGACAACTTTGCACTAACCCC
 TGCATCTACTATGATGAATACTTCGACTGTGACATACAAGTCCATTATCTGGGATGCAACCACTCAACAA
 CTATCCTATTCTGTAAAGCCACTTGTCTGTGTGACACTGAGATAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC212061 representing NM_001131
 Red=Cloning site Green=Tags(s)

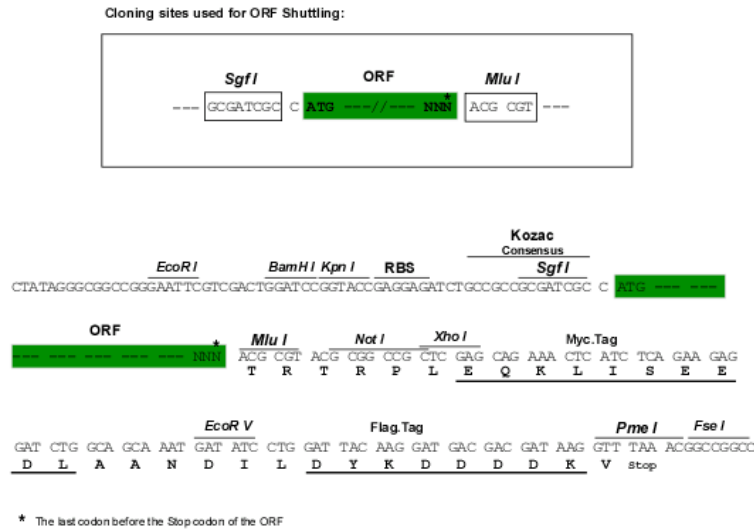
MEIKHLLFLVAAACLLPMLSMKKKSARDQFNKLVTDLPNVQEEIVNIHNALRRRVPPASNMLKMSWSEE
 AAQNARIFSKYCDMTESNPLERRLPNTFCGENMHMTSYPVSWSSVIGVWYSESTSFKHGEWTTTDDDDITT
 DHYTQIIVWATSYLIGCAIASCRQQGSPRYLYVCHYCHEGNDPETHKNEPYKTGPVCEACPSNCDKLCNTNP
 CIYYDEYFDCDIQVHYLGCNHSTTILFCKATCLCDTEIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8026_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001131

ORF Size: 747 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_001131.3](#)

RefSeq Size: 1892 bp

RefSeq ORF: 750 bp

Locus ID: 167

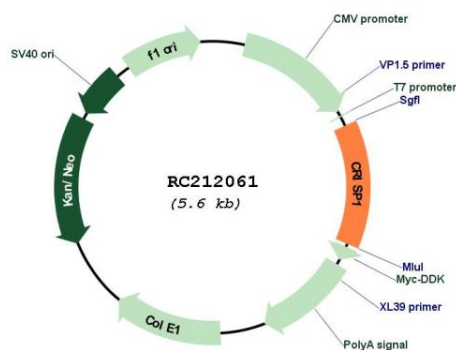
UniProt ID: [P54107](#)

Cytogenetics: 6p12.3

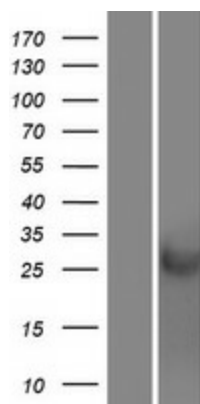
MW: 28.48 kDa

Gene Summary: Fertilization consists of a sequence of specific cell-cell interactions culminating in the fusion of the sperm and egg plasma membranes. Recognition, binding, and fusion occur through the interaction of complementary molecules that are localized to specific domains of the sperm and egg plasma membranes. In the sperm, the postacrosomal region or equatorial segment is involved in sperm-egg plasma membrane fusion. The protein encoded by this gene is a member of the cysteine-rich secretory protein (CRISP) family. It is expressed in the epididymis, is secreted into the epididymal lumen, and binds to the postacrosomal region of the sperm head, where it plays a role in sperm-egg fusion. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC212061



Western blot validation of overexpression lysate (Cat# [LY420116]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212061 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).