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Product datasheet for RC221293

CRISP1 (NM_170609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRISP1 (NM_170609) 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:

>RC221293 representing NM_170609
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAATTAAACACCTCTTGTTTTTGGTTGCTGCTGCTTGCTTACTGCCTATGTTGTCCATGAAAAAGA
AATCAGCTAGAGACCAATTTAATAAGCTCGTCACCGACTTGCCAAATGTACAAGAAGAGATCGTTAATAT
ACACAACGCCCTCAGGAGAAGAGTAGTTCCACCAGCCAGCAACATGCTGAAGATGAGTTGGAGTGAAGAG
GCTGCACAAAATGCCAGAATTTTTTCAAAGTATTGTGATATGACAGAGAGCAACCCCCTTGAGAGGAGAC
TTCCAAATACCTTTTGTGGAGAAAATATGCATATGACATCTTATCCTGTATCATGGTCAAGTGTAATTGG
AGTCTGGTACAGTGAGTCTACAAGTTTCAAACATGGAGAATGGACAACAACGGATGATGACATAACTACT
GACCACTACACTCAGATTGTTTGGGCCACATCTTACCTGATTGGCTGTGCCATTGCATCTTGCCGCCAAC
AAGGATCACCTCGATATCTCTACGTTTGTCACTATTGTCATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221293 representing NM_170609
Red=Cloning site Green=Tags(s)

MEIKHLLFLVAAACLLPMLSMKKKSARDQFNKLVTDLPNVQEEIVNIHNALRRRVVPPASNMLKMSWSEE
AAQNARIFSKYCDMTESNPLERRLPNTFCGENMHMTSYPVSWSSVIGVWYSESTSFKHGEWTTTDDDITT
DHYTQIVWATSYLIGCAIASCRQQGSPRYLYVCHYCHD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1250_b04.zip

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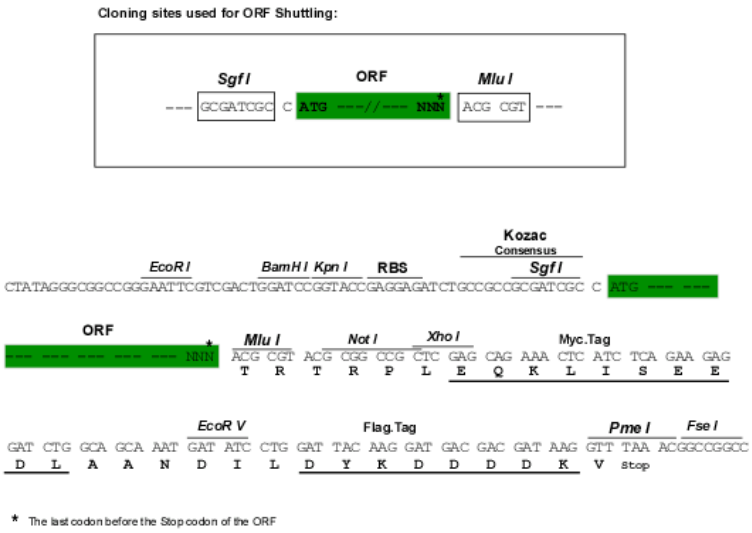
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_170609

ORF Size: 534 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: NM_170609.2

RefSeq Size: 1803 bp

RefSeq ORF: 537 bp

Locus ID: 167

UniProt ID: P54107

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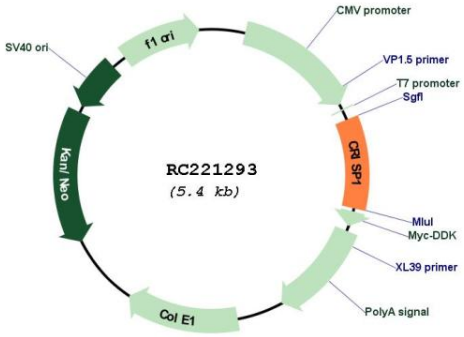
Cytogenetics: 6p12.3

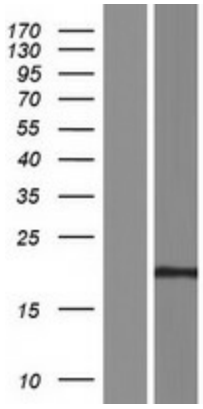
MW: 18.2 kDa

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 RC221293



Western blot validation of overexpression lysate (Cat# [LY406916]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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