

Product datasheet for **RC227177**

CRISP2 (NM_001142435) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRISP2 (NM_001142435) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRISP2
Synonyms:	CRISP-2; CT36; GAPDL5; TPX1; TSP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227177 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTACTACCGGTGTTGTTTCTGGTTACTGTGCTGCTTCCATCTTTACCTGCAGAAGGAAAGGATC
CCGCTTTTACTGCTTTGTTAACCACCCAGTTGCAAGTGCAAAGGGAGATTGTAATAAACACAATGAACT
AAGGAAAGCAGTCTCTCCACCTGCCAGTAACATGCTAAAGATGGAATGGAGCAGAGAGGTAACAACGAAT
GCCCAAAGGTGGCAAACAAGTGCACCTTACAACATAGTGATCCAGAGGACCGCAAACAGTACAAGT
GTGGTGAATCTCTATATGTCAAGTGACCCTACTTCCTGGTCTTCTGCAATCCAAGCTGGTATGACGA
GATCCTAGATTTTGTCTATGGTGTAGGACCAAAGAGTCCCAATGCAGTTGTTGGACATTATACTCAGCTT
GTTTGGTACTCGACTTACCAGGTAGGCTGTGGAATTGCCTACTGTCCCAATCAAGATAGTCTAAAATACT
ACTATGTTTGCCAATATTGTCCTGCTGGTAATAATATGAATAGAAAGAATACCCCGTACCAACAAGGAAC
ACCTTGTGCCGTTGCCCTGATGACTGTGACAAAGGACTATGCACCAATAGTTGCCAGTATCAAGATCTC
CTAAGTAACTGTGATTCTTGAAGAATACAGCTGGCTGTGAACATGAGTTACTCAAGGAAAAGTGAAGG
CTACTTGCCTATGTGAGAACAAAATTTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227177 protein sequence
Red=Cloning site Green=Tags(s)

MALLPVLFLVTLLPSLPAEGKDP AFTALLTTQLQVQREIVNKHNLRKAVSPPASNMLKMEWSREVTTN
 AQRWANKCTLQHSDPEDRKTSTRCGENLYMSSDPTSWSSAIQSWYDEILDFVYGVGPKSPNAVVGHYTQL
 VWYSTYQVGGCIAYCPNQDSLKYYYYVCYCPAGNNMNRKNTPYQQGTPCAGCPDDCDKGLCTNSCQYQDL
 LSNCDLKN TAGCEHELLKEKCKATCLCENKIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8074_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001142435

ORF Size: 729 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_001142435.3](#)

RefSeq Size: 1370 bp

RefSeq ORF: 732 bp

Locus ID: 7180

UniProt ID: [P16562](#)

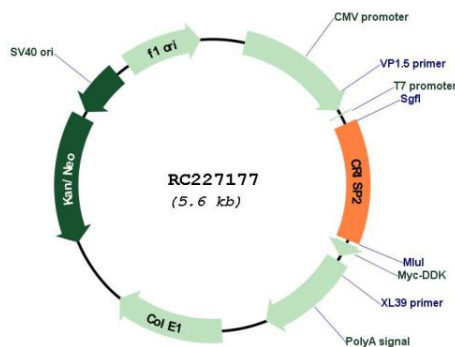
Cytogenetics: 6p12.3

Protein Families: Secreted Protein

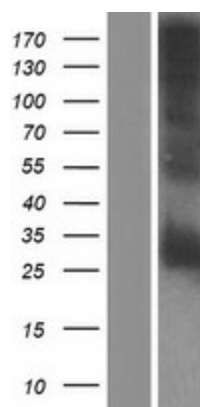
MW: 27.3 kDa

Gene Summary: May regulate some ion channels' activity and thereby regulate calcium fluxes during sperm capacitation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227177



Western blot validation of overexpression lysate (Cat# [LY428096]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227177 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).