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Product datasheet for RC233554

HVCN1 (NM_001256413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HVCN1 (NM_001256413) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HVCN1
Synonyms:	HV1; VSOP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC233554 representing NM_001256413
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCAAGTTCTTAAGGCACTTCACGGTCGTGGGAGACGACTACCATGCCTGGAACATCAACTACAAGA
AATGGGAGAATGAAGAGGAGGAGGAGGAGGAGGAGCAGCCACCACCCACACCAGTCTCAGGCGAGGAAGG
CAGAGCTGCAGCCCCTGACGTTGCCCCTGCCCCTGGCCCCGCACCCAGGGCCCCCCTTGACTTCAGGGGC
ATGTTGAGGAAACTGTTCAGCTCCCACAGGTTTCAGGTCATCATCATCTGCTTGGTGGTTCTGGATGCCC
TCCTGGTGCTTGCTGAGCTCATCCTGGACCTGAAGATCATCCAGCCCGACAAGAATAACTATGCTGCCAT
GGTATTCCACTACATGAGCATCACCATCTTGGTCTTTTTTATGATGGAGATCATCTTTAAATTATTTGTC
TTCCGCCTGGAGTTCTTTCACCACAAGTTTGAGATCCTGGATGCCGTCGTGGTGGTGGTCTCATTCATCC
TCGACATTGTCCTCCTGTTCCAGGAGCACCAGTTTGAGGCTCTGGGCCTGCTGATTCTGCTCCGGCTGTG
GCGGGTGGCCCGGATCATCAATGGGATTATCATCTCAGTTAAGACACGTTCAGAACGGCAACTCTTAAGG
TTAAAACAGATGAATGTACAATTGGCCGCCAAGATTCAACACCTTGAGTTCAGCTGCTCTGAGAAGGAAC
AAGAAATTGAAAGACTTAACAAACTATTGCGACAGCATGGACTTCTTGGTGAAGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

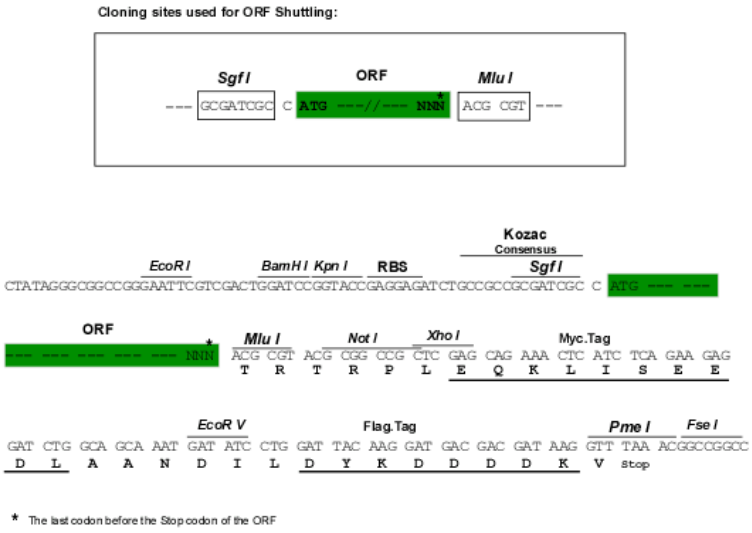
>RC233554 representing NM_001256413
Red=Cloning site Green=Tags(s)

MSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEEEQPPPTPVSGEEGRAAAPDVAPAPGPAPRAPLDFRG
MLRKLFSSHRFQVIIICLVVLDALLVLAELILDLKIIQPDKNNYAAMVFHYMSITILVFFMMEIIFKLFV
FRLEFFHHKFEILDAVVVVVSFILDIVLLFQEHQFEALGLLILLRLWRVARIINGIIISVKTRSERQLLR
LKQMNVQLAAKIQHLEFSCSEKEQEIERLNKLLRQHGLLGEVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256413

ORF Size: 759 bp

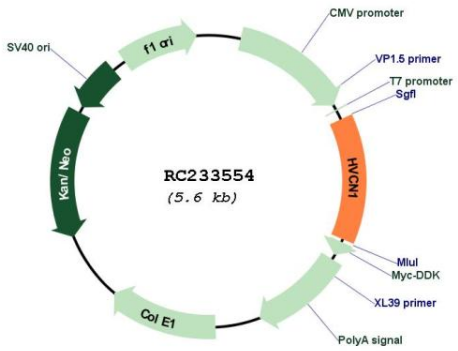
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001256413.2
RefSeq Size:	1696 bp
RefSeq ORF:	762 bp
Locus ID:	84329
UniProt ID:	Q96D96
Cytogenetics:	12q24.11
Protein Families:	Druggable Genome, Transmembrane
MW:	29.9 kDa
Gene Summary:	This gene encodes a voltage-gated protein channel protein expressed more highly in certain cells of the immune system. Phagocytic cells produce superoxide anions which require this channel protein, and in B cells this same process facilitates antibody production. This same channel protein, however, can also regulate functions in other cells including spermatozoa. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RC233554