

Product datasheet for MR203573

Hvcn1 (NM_001042489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hvcn1 (NM_001042489) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hvcn1
Synonyms:	0610039P13Rik; AI450555; BTS; HV1; mVSOP; Vsop.
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203573 representing NM_001042489 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTCCCATGACCCAAAGGCCGTCCTCGCAGAACCAAGGTGGCTCCCACCAAGAGGATGAGCAGGT
TCTTGAAACACTTTACGGTGGTTGGGGACGACTACCACACGTGGAATGTCAACTACAAGAAGTGGGAGAA
TGAGGAGGAGGAGGAGGCCAGCGCCACATCAGCAGAGGGTGAGGGCAATGCTGAGGGCCAGATGCC
GAGGCTGGCTCTGCCTCCACGCCAGGCAGTCCCTGGACTTCAGGAGCCGACTGAGGAACTCTTCAGTT
CCCACAGGTTTCAGGTCATCATCTGCCTGGTGGTCTGGACGCCCTCCTCGTCTTGTGAACCTCT
CCTGGATTTGAAGATCATCGAGCCGACGAGCAAGACTATGCGGTACCGGTTCCACTACATGAGCTTT
GCCATCCTGGTCTTCTTCATGTTGGAGATTTTTTCAAGATCTTCGTCTTCGGCTTAGAGTTCTTCCACC
ACAAGTTTGAGATCCTGGATGCCTTCGTGGTGGTGTCTTTCGTCTTGACCTTGCTCTTGTGTTAA
AAGCCACCACTTCGAAGCTCTAGGGTGTCTGATCTTGCTTCGGCTCTGGAGGGTGGCCCGGATCATCAAT
GGCATCATCTCCGTGAAGACACGCTCAGAACGGCAGATCTTAAGGCTAAAGCAGATAAATATCCAAC
TGGCCACCAAGATCCAGCATCTGGAATTCAGCTGCTCCGAGAAGGAACAAGAAATTGAGCGGCTCAACAA
GCTGTTGAAACAGAATGGACTTCTCGGGACGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203573 representing NM_001042489
 Red=Cloning site Green=Tags(s)

MTSHDPKAVTRRTKRVAPTKRMSRFLKHFTVVGDDYHTWVNVYKKWENEEEEEPAPTSAEEGNAEGPDA
 EAGSASTPRQSLDFRSRLRKLFSHRFQVIIICLVVLDALLVLAELLLDLKIIIEPDEQDYAVTAFHYMSF
 AILVFFMLEIFFKIFVFRLEFFHHKFEILDVAVVVVSVFLDLVLLFKSHHFEALGLLILLRLWRVARIIN
 GIIISVKTRSERQILRLKQINIQLATKIQHLEFSCSEKEQEIERLNKLLKQNGLLGDVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9024_b09.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_001042489

ORF Size: 807 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_001042489.2](#), [NP_001035954.1](#)

RefSeq Size: 2782 bp

RefSeq ORF: 810 bp

Locus ID: 74096

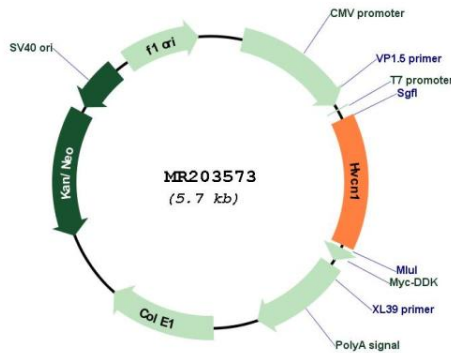
UniProt ID: [Q3U2S8](#)

Cytogenetics: 5 F

MW: 31.7 kDa

Gene Summary: Mediates the voltage-dependent proton permeability of excitable membranes. Forms a proton-selective channel through which protons may pass in accordance with their electrochemical gradient. Proton efflux, accompanied by membrane depolarization, facilitates acute production of reactive oxygen species in phagocytosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203573