

Product datasheet for **MG203573**

Hvcn1 (NM_028752) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hvcn1 (NM_028752) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hvcn1
Synonyms:	0610039P13Rik; AI450555; BTS; HV1; mVSOP; Vsop.
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203573 representing NM_028752 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTCCCATGACCCAAAGGCCGTCCTCGCAGAACCAAGGTGGCTCCCACCAAGAGGATGAGCAGGT
TCTTGAAACACTTTACGGTGGTTGGGGACGACTACCACACGTGGAATGTCAACTACAAGAAGTGGGAGAA
TGAGGAGGAGGAGGAGGCCAGCGCCACATCAGCAGAGGGTGAGGGCAATGCTGAGGGCCAGATGCC
GAGGCTGGCTCTGCCTCCACGCCAGGCAGTCCCTGGACTTCAGGAGCCGACTGAGGAACTCTTCAGTT
CCCACAGGTTTCAGGTCATCATCTGCCTGGTGGTCTGGACGCCCTCCTCGTCTTGTGAATCCT
CCTGGATTTGAAGATCATCGAGCCGACGAGCAAGACTATGCGGTCACGGGTTCCACTACATGAGCTTT
GCCATCCTGGTCTTCTTCATGTTGGAGATTTTTTCAAGATCTTCGTCTTCGGCTTAGAGTTCTTCCACC
ACAAGTTTGAGATCCTGGATGCCTTCGTGGTGGTGTCTTTCGTCTTGACCTTGCTCTTGTGTTAA
AAGCCACCACTTCGAAGCTCTAGGGCTGCTGATCTTGCTTCGGCTCTGGAGGGTGGCCCGGATCATCAAT
GGCATCATCTCCGTGAAGACACGCTCAGAACGGCAGATCTTAAGGCTAAAGCAGATAAATATCCAAC
TGGCCACCAAGATCCAGCATCTGGAATTCAGCTGCTCCGAGAAGGAACAAGAAATTGAGCGGCTCAACAA
GCTGTTGAAACAGAATGGACTTCTCGGGACGTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG203573 representing NM_028752
 Red=Cloning site Green=Tags(s)

MTSHDPKAVTRRTKRVAPTKRMSRFLKHFTVVGDDYHTWVNVYKKWENEEEEEPAPTSAELEGNAEGPDA
 EAGSASTPRQSLDFRSRLRKLFSHRFQVIIICLVVLDALLVLAELLLDLKIEPDEQDYAVTAFHYMSF
 AILVFFMLEIFFKIFVFRLEFFHHKFEILDVAVVVVSVFLDLVLLFKSHHFEALGLLILLRLWRVARIIN
 GIIISVKTRSERQILRLKQINIQLATKIQLHLEFSCSEKEQEIERLNKLLKQNGLLGDVN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028752

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_028752.3](#), [NP_083028.1](#)

RefSeq Size: 2641 bp

RefSeq ORF: 810 bp

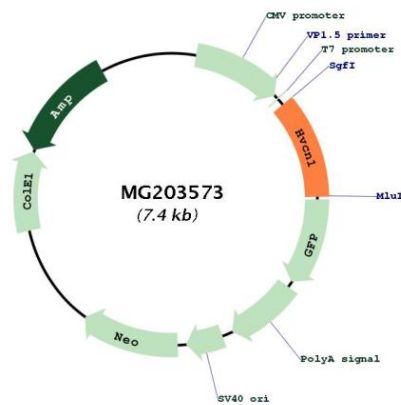
Locus ID: 74096

UniProt ID: [Q3U2S8](#)

Cytogenetics: 5 F

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 MG203573