

## Product datasheet for MR228914

### Hvcn1 (NM\_028752) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hvcn1 (NM\_028752) 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:** >MR228914 representing NM\_028752  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACTTCCCATGACCCAAAGGCCGTCCTCGCAGAACCAAGGTGGCTCCCACCAAGAGGATGAGCAGGT  
 TCTTGAAACACTTTACGGTGGTTGGGGACGACTACCACACGTGGAATGTCAACTACAAGAAGTGGGAGAA  
 TGAGGAGGAGGAGGAGGCCAGCGCCACATCAGCAGAGGGTGAGGGCAATGCTGAGGGCCAGATGCC  
 GAGGCTGGCTCTGCCTCCACGCCAGGCAGTCCCTGGACTTCAGGAGCCGACTGAGGAACTCTTCAGTT  
 CCCACAGGTTTCAGGTCATCATCTGCCTGGTGGTCTGGACGCCCTCCTCGTCTTGTGAATCCT  
 CCTGGATTTGAAGATCATCGAGCCGACGAGCAAGACTATGCGGTACGGGTTCCACTACATGAGCTTT  
 GCCATCCTGGTCTTCTTCATGTTGGAGATTTTTTCAAGATCTTCGTCTTCGGCTTAGAGTTCTTCCACC  
 ACAAGTTTGAGATCCTGGATGCCTTCGTGGTGGTGTCTTTCGTCTTGACCTTGTCCTTGTGTTAA  
 AAGCCACCACTTCGAAGCTCTAGGGTGTCTGATCTTGCTTCGGCTCTGGAGGGTGGCCCGGATCATCAAT  
 GGCATCATCATCTCCGTGAAGACACGCTCAGAACGGCAGATCTTAAGGCTAAAGCAGATAAATATCCAAC  
 TGGCCACCAAGATCCAGCATCTGGAATTCAGCTGCTCCGAGAAGGAACAAGAAATGAGCGGCTCAACAA  
 GCTGTTGAAACAGAATGGACTTCTCGGGACGTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228914 representing NM\_028752  
Red=Cloning site Green=Tags(s)

```

MTSHDPKAVTRRTRTKVAPTKRMSRFLKHFVVGDDYHTWNVNYKKWENEEEEEPAPTSAEGEGNAEGPDA
EAGSASTPRQSLDFRSRLRKLFSHRFQVIIICLVVLDALLVLAELLDLKIIEPDEQDYAVTAFHYMSF
AILVFFMLEIFFKIFVFRLEFFHHKFEILDVAVVVVSVFLDLVLLFKSHHFEALGLLILLRLWRVARIIN
GIIISVKTRSERQILRLKQINIQLATKIQHLEFSCSEKEQEIERLNKLLKQNGLLGDVN
  
```

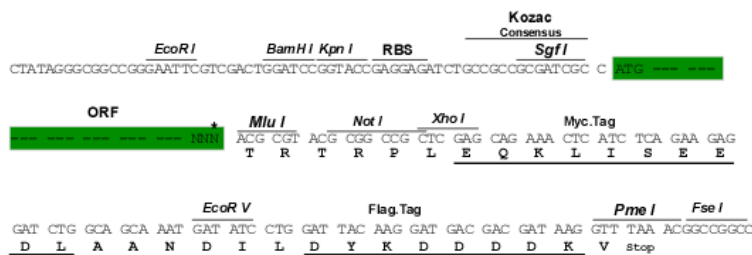
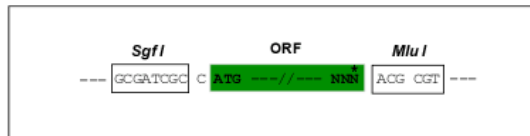
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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:** 2652 bp

**RefSeq ORF:** 810 bp

**Locus ID:** 74096

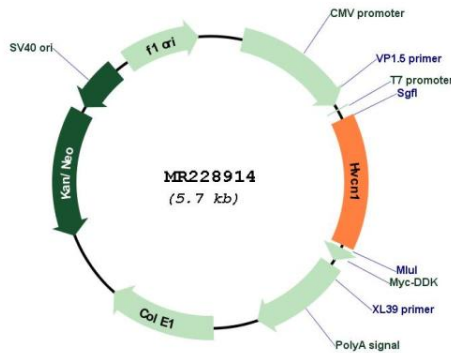
**UniProt ID:** [Q3U2S8](#)

**Cytogenetics:** 5 F

**MW:** 31.2 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 MR228914