

## Product datasheet for **RC221441**

### **C15ORF27 (TMEM266) (NM\_152335) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C15ORF27 (TMEM266) (NM_152335) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C15ORF27
Synonyms:	C15orf27; HsHVRP1; hTMEM266; HVRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC221441 representing NM\_152335  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGTGGCTCCATCTTTCAACATGACCAATCCACAGCCTGCCATAGAAGGAGGAATTTCTGAAGTTG  
 AGATCATCTCCCAACAAGTAGACGAAGAAACCAAGAGCATTGCTCCTGTGCAGCTGGTAACTTTGCCTA  
 TCGGGACTTGCCCTGGCTGCTGTGCATCTCTCCACGGCGGGCTCGCAGCTCCTGTCAAATCTGGACGAA  
 GATTACCAAAGAGAAGGGTCTAACTGGCTGAAGCCGTGCTGTGGGAAGAGAGCAGCCGTGTGGCAGGTAT  
 TTTTGCTCAGTGAAGTCTCAACAGTTTCTGGTAGCCTGTGTAATATTGGTGGTATTCTCCTGACTCT  
 GGAAGTCTAATAGATAAAAGTTCTCCAGTTTTCCAGCGCATTCCAGTTTGTGGCGTGATCACTGG  
 ATCAGCCTGGTATTCTGTCGTGTTCTCTCAGAGACTGTTCTACGGATTGTGGTGCTGGGATCTGGG  
 ATTACATCGAAAAAAAATAGAGGTGTTTGACGGGGCTGTGATCATCCTATCTTTGGCTCCGATGGTGGC  
 ATCCACTGTGGCCAAATGGACCCAGGAGCCCTGGGACGCCATCAGCCTCATCATGCTCCGGATCTGG  
 AGGGTGAAGAGGGTCATTGATGCCTACGCTCCTGCCAGTGAAGCTGGAGATGGAGATGGTTATCCAGCAGT  
 ACGAGAAGGCCAAGGTCAATCAAGACGAGCAGCTGGAGAGGCTGACGCAGATCTGTCAAGGCAAGGGTT  
 TGAGATCCGGCAGCTGCGCGCACCTGGCGCAGCAGGACCTGGACCTGGCTGCCGAGCGCAAGCGGCG  
 CTCCAGGCCCCGACGTGCTCAGCCAGCCGCGCAGCCGCTTCAAAGTGTGGAGGCCGACGTGGGACG  
 AGGAGACGGCGGGCCGAGAGCGTGTGGAGGAGCTGCAGCCCTCGCAAGAAGCCACGATGAAGGACGACAT  
 GAACAGCTACATCAGTCAAGTATTACAATGGGCCAGCAGTGACAGCGGTGCCAGAGCCAGCTGTGTGT  
 ATGGTCACCACGGCCGAATAGACATTCACCAGCCCAACATCTCCTCGGACCTCTCTCTGACATGC  
 CCCTCAAACCTCGGCGGTAATGGCACCGCCACCTCGGAGAGTGCCTCCCGCAGCTCAGTCCAGCGGGC  
 CCAGAGTGACAGCAGCCAGACGCTGGGCTCCTCCATGGACTGCAGCACTGCCCGGAGGAGCCGCTCCTCT  
 GAGCCCCGCCCTTCTCCCCCGCCGCTGCCATCCAGCAGCAGGTGGAGGAGGCCACAGTCCAGGACCTGC  
 TGTCTCCTGTGCGGAGGACCCCTGCCCTTCCAGAAGGCCTTGGACCCAGCCCCCTCGCCCGGCCAG  
 CCCAGCGGGCTCGGCCAAACCAGCCCCGAGCTGGAACACAGGGTAAGTCTGTTCAACCAGAAGAACCAG  
 GAGGGTCTACTGTCTTTAGATCAGGCCTGTATCCACTCCAGCCACTGTGCCATGCTGGAGGACA  
 AGTTCAGATCTTTGGAATCAAAGAGCAAAGCTGCACAGGGTCCCTGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC221441 representing NM\_152335  
 Red=Cloning site Green=Tags(s)

MAVAPSFNMTNPQPAIEGGISEVEIISQQVDEETKSIAPVQLVNFAYRDLPLAAVDLSTAGSQLLSNLDE  
 DYQREGSNLKPCCGKRAAVWQVFLLSASLNSFLVACVILVVILLTLELLIDIKLLQFSSAFQFAGVIHW  
 ISLVILSVFFSETVLRIVVLGIWDYIENKIEVFDGAVIILSLAPMVASTVANGPRSPWDAISLIIMLRIW  
 RVKRVIDAYVLPVKLEMEMVIQQYEKAKVIQDEQLERLTQICQEQQFEIRQLRAHLAQDLDLAAEREA  
 LQAPHVLSPRSRKFVLEAGTWDEETAESVVEELQPSQEATMKDDMNSYISQYYNGPSSDSGVPEPAVC  
 MVTAAIDIHQPNISSDLFSLDMPLKLGNGTSATSESASRSSVTRAQSDSSQTLGSSMDCSTAREEPSS  
 EPGPSPPLPSQQVVEEATVQDLLSSLSEDPSPKALDPAPLARPSAGSAQTSPELEHRVSLFNQKNQ  
 EGFVTFQIRPVIHFQPTVPMLEDKFRSLESKEQKLHRVPEA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8012\\_d12.zip](https://cdn.origene.com/chromatograms/mk8012_d12.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_152335

**ORF Size:** 1593 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\\_152335.3](#)

**RefSeq Size:** 2414 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 123591

**UniProt ID:** [Q2M3C6](#)

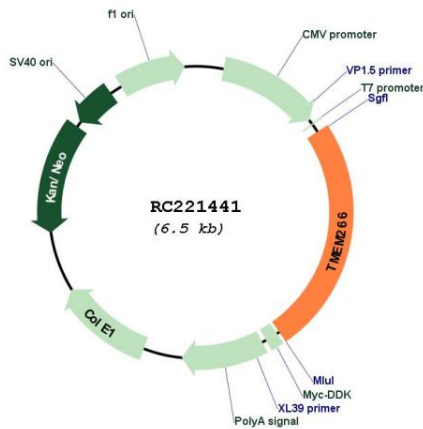
**Cytogenetics:** 15q24.2

**Protein Families:** Druggable Genome, Transmembrane

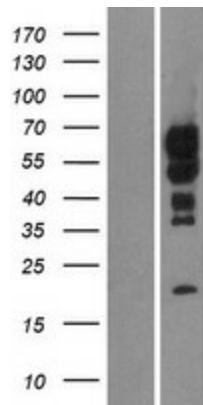
**MW:** 58.3 kDa

**Gene Summary:** Voltage-sensor protein present on the post-synaptic side of glutamatergic mossy fibers and granule cells in the cerebellum (PubMed:25165868, PubMed:30810529). Despite the presence of a voltage-sensor segment, does not form a functional ion channel and its precise role remains unclear (PubMed:25165868, PubMed:30810529). Undergoes both rapid and slow structural rearrangements in response to changes in voltage (PubMed:30810529). Contains a zinc-binding site that can regulate the slow conformational transition (PubMed:30810529). [UniProtKB/Swiss-Prot Function]

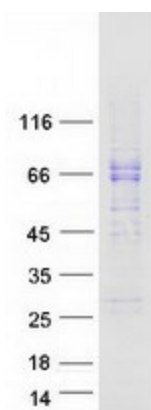
**Product images:**



Circular map for RC221441



Western blot validation of overexpression lysate (Cat# [LY407586]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221441 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM266 protein (Cat# [TP321441]). The protein was produced from HEK293T cells transfected with TMEM266 cDNA clone (Cat# RC221441) using MegaTran 2.0 (Cat# [TT210002]).