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Product datasheet for RC220654

C10orf72 (VSTM4) (NM_144984) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf72 (VSTM4) (NM_144984) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C10orf72
Synonyms:	C10orf72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC220654 representing NM_144984
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCTGCTGGCACTGGCGGCGGCCGCGCTGCTGGCGCGGGCTCCGGCTCCGGAGGTCTGTGCGGCCC
TCAATGTCACTGTGTCCCCGGGGCCCGTGGTTGACTACCTGGAGGGGGAGAATGCCACTCTCCTCTGCCA
CGTCTCCCAGAAAAGGCGGAAGGACAGCTTGCTGGCCGTGCGCTGGTTCTTTGCACACTCCTTCGACTCC
CAGGAGGCCTTGATGGTGAAGATGACCAAGCTCCGGGTGGTGCAGTACTATGGGAATTTCAGCCGCAGCG
CCAAACGGCGGAGGCTGCGCCTGCTGGAGGAGCAGCGGGGGGCGCTCTACAGGCTCTCCGTCTTGACACT
GCAGCCCTCCGATCAAGGGCATTACGTCTGCAGAGTCCAGGAAATCAGCAGGCACAGGAACAAGTGGACG
GCCTGGTCCAATGGCTCCTCAGCCACGGAAATGAGAGGAGTCTCCAGCCATCCAGTGGAGAGGGGAGCTT
TTCTTGGGATTTCCCTTGTAATACTACCTCACTCTTTGCCCTTCACCGCAGACTTAACCATGGCCTCCTT
CCTGCAGAGTTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

```
>RC220654 representing NM_144984
Red=Cloning site Green=Tags(s)

MRLLALAAAALLARAPAPEVCAALNVTVSPGPVVDYLEGENATLLCHVSQKRRKDSLLAVRWFFAHSFDS
QEALMVKMTKLRVVQYYGNFSRSAKRRRLRLLEEQRGALYRLSVLTLQPSDQGHYVCRVQEISRHRNKWT
AWSNGSSATEMRGVSSHPVERGAFLGISLVILPHSLPFTADLTMASFLQSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

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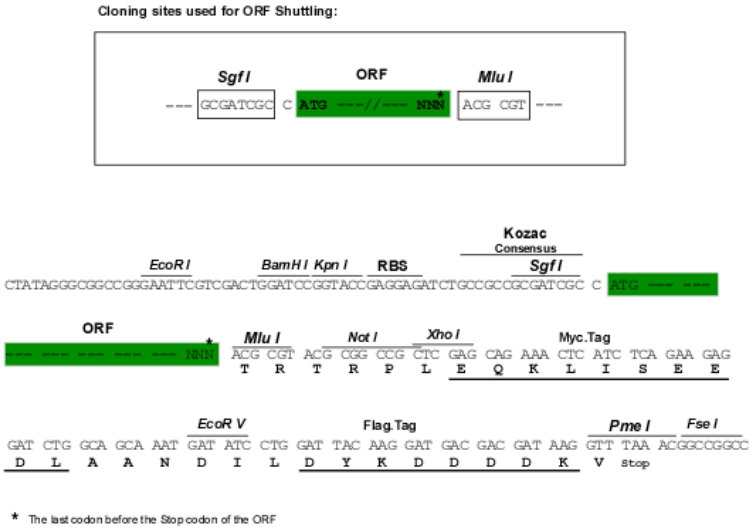
Chromatograms: https://cdn.origene.com/chromatograms/mk8012_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144984

ORF Size: 573 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_144984.4

RefSeq Size: 2170 bp

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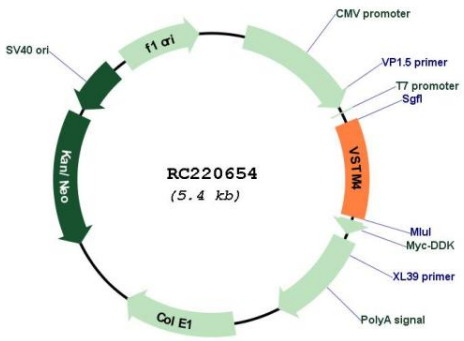
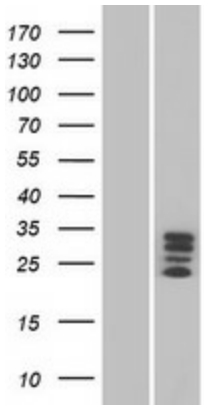
RefSeq ORF:	576 bp
Locus ID:	196740
UniProt ID:	Q8IW00
Cytogenetics:	10q11.23
Protein Families:	Transmembrane
MW:	21.1 kDa
Gene Summary:	Peptide Lv enhances L-type voltage-gated calcium channel (L-VGCC) currents in retinal photoreceptors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC220654



Western blot validation of overexpression lysate (Cat# [LY408124]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220654 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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