

## Product datasheet for **RC219926**

### **C6orf70 (ERMARD) (NM\_018341) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C6orf70 (ERMARD) (NM_018341) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C6orf70
Synonyms:	C6orf70; dJ266L20.3; PVNH6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC219926 representing NM\_018341  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTATTAATAGGGGACCCTATTACCACATGTCTTTCTCCCTCAGTGTATGATATAATTTGTAATC  
 TTGGGTTTCAACTCAGAGAAAATTGTGATATCAATAGCATTGTAACCTCAGAATGGTGAAGTATGCTGGAA  
 AACAAACACAGACTGTGTGAGCTACACAGAGTCAGAGCAGGGTCTGGATTACTGGGGAAGCGTGAGGCTG  
 CTGGGCCCTGTGTGAGGCTGTCCATTACATTTCTTATCTCTGACCAAGGGGCAATTTGAAATTCGAT  
 ATGCACCGTGGTCCAGTGGACAAGTTTTCCAGAGTTATTTCTGAAATATTTGATGCCTTGAAAGTCT  
 ACAATCTCCTGCTATTTCTTTAGCTTAATGAACTGACATCGTGTCTAGAACGAGCCTTGGGTGATGTA  
 TTTTACTGATTGGGAAGGAATGCCCTTTCTTTAAGAGATCTGCTTTCATCTGAGGAGCTTGCTCAAG  
 TCTTCAGTCAGTCTGTGATGAATGTGCTAAAAGTCTTCGTTGGCTCTCCGTGTGGTCTCAACCTGCGTAA  
 CGTCTTATGGCATGGGTTTTCGTCACCTGAAGAAATTCCTCAAATACTGTTCAATGATGATACTGTTG  
 ACGGCAGGATTGGGTGAGTACTGAAGAGTTACCTTCAAACACTAAACTTACATTGGCAGATCGCTCTT  
 TCATATCTCTTACAAACCTCGAGGATTTGATTGTTTTCTGATGTTACTTATGAGGTGCTTTCAGTATT  
 AGAAGAAGTATGATGAAATCTGCTTTTATTTAAAAATCATGTTACCATATTGGGAAGTTGCACTGGTC  
 AAGTTCAAGTCACACAGGTTTGTGACTGCGCCATATTGTTGCTGACACAACCTGGAGACTGGACTTAGGA  
 ATGTTTTTGCCCACTTAACAGATGTCCAAAAGACTCCTGACTGCTGAGTCAACAGCTCTTTATACCAC  
 CTTTGTCAAATATTGGCAAAACACTTGAATGATGGTAAAATCAATCAGCTTCTCTTTTCTTGGAGAG  
 CCTGCTATGGAATTTCTCTGGGATTTCTGAACCATCAGGAGGGTCCCGCATAAGAGATCATTTAAGCC  
 ACGGGGAGATCACTTACATGAATTTTCAAAGAACAATAATCAGTTGCTTGCATTTTCTTGTACT  
 GCTACTCAGATTCGTTGATGACTGTCTGCTATCAGTTTTTAAGGAAAAATCAGCCGTAGAATTGTTGATT  
 AGTCTTGAGAAGGCTATAGTTCTCGCTGTCCCGTTTTTTCAGCTTAAAAAACAGGTGCTGAGCTGTG  
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 CCTGAGAATCGTTGTGTGTTAAAGGACTTGGATCGTCTTCTACTGAGACGTGGCCCCAGCTTCTCCGTG  
 AGCTCTGCAGCACACCTGTTCCACCTGTTCTGCCCCAGGATTGTGCTGGAAGTGTGTTGTGCTCCG  
 AAGCATCAGCGAACAGTCCCGCTGTGTCAGCCAGGTCACCGTTGCCTCAGAGCTGAGACACAGGCAG  
 TGGGTGGAAGGACGCTCGGGTCTGCCAGCGGCAAGTACCTGCGTATGTGGAGTAGTATCAGACTAC  
 TGTCCTGCTGCTCAGCCTGATACTGTTACTCATTGCGCTGGAGTTGGTCAACATTCATGCTGTTTGTGG  
 GAAGAATGCGCATGAGTATCAGCAGTACCTAAAGTTTGTAAAGTCGATCTTGCAGTACACGGAGAACCTG  
 GTGGCTTACACCAGTTACGAAAAGAACAAGTGGAAATGAACTATCAATCTTACACATACAGCTTTGTTGA  
 AAATGTGGACTTTTAGTGAGAAGAAACAATGTTAATACATTTAGCCAAGAAATCCACAAGTAAAGTACT  
 CTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC219926 representing NM\_018341  
Red=Cloning site Green=Tags(s)

```
MEVLIGDPITTCCLSPSVYDIICNLGFQLRENCINSIVTQNGEVCWKTITDCVSYTESEQGLDYWGSVRL
LGPVCEAVHSHFLSLTKGQFEIRYAPWFQWTSFPELFEIFDALESLQSPAISLSLMKLTSCLERALGDV
FLLIGKECPFLRLDLLSSEELAQVFSQSVMNVLKVFVGSPCGLNLRNVLWHGFASPEEIPPKYCSMMILL
TAGLQQLKSYLQNTKLTLAHRFSISLTNLEDLIVFPDVTYEVLVLEEVMKSAFILKIMLPYWEVALV
KFKSHRFADCAILLTQLETGLRNVFATLNRCPKRLTAESTALYTTFDQILAKHLNDGKINQLPLFLGE
PAMEFLWDFLNHQEGPRIIRDHLSHGEINLHEFSKETTQLLAFSLVLLRFVDDCLLSVFKEKSAVELLI
SLAEGYSSRCHPVFQLKKQVLSCEESIRVWALLPFPEELTRQAVRLEDNSETNACHSLITKMTDELHYHM
PENRCVLKDLRDLPTETWPQLRELCTSPVPTLFCPRIVLEVLVLRISIEQCRRVSSQVTVASELRHRQ
WVERTLRSRQRQNYLRMWSIRLLSPVLSILLIALELVNIHAVCGKNAHEYQYQLKFKVKSILQYTENL
VAYTSYEKNKWNETINLTHTALLKMWTFSEKKQMLIHLAKKSTSKVLL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018341

**ORF Size:** 2034 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\\_018341.3](#)

**RefSeq Size:** 2078 bp

**RefSeq ORF:** 2037 bp

**Locus ID:** 55780

**UniProt ID:** [Q5T6L9](#)

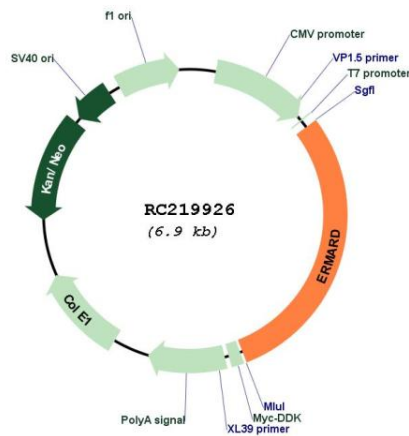
**Cytogenetics:** 6q27

**Protein Families:** Transmembrane

**MW:** 77.6 kDa

**Gene Summary:** The protein encoded by this gene contains 2 transmembrane domains near the C-terminus and is localized in the endoplasmic reticulum. Knockout of this gene in developing rat brain showed that it may be involved in neuronal migration. Mutations in this gene are associated with periventricular nodular heterotopia-6 (PVNH6). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2013]

**Product images:**



Circular map for RC219926