

## Product datasheet for **RC200994**

### **FSD1 (NM\_024333) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | FSD1 (NM_024333) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | FSD1                                    |
| Synonyms:                 | GLFND; MIR1                             |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>RC200994 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGAACAGAGGGAGGCCCTGAGGAAGATCATCAAAACACTGGCTGTGAAGAATGAAGAAATTCAGA  
 GCTTTATCTACTCCCTGAAACAGATGCTGCTGAACGTGGAGGCGAACTCGGCGAAGGTGCAGGAGGACCT  
 CGAAGCAGAGTTCAGTCCCTCTTCTCCCTCTGGAGGAGCTGAAAGAAGGCATGCTTATGAAGATAAAA  
 CAGGACCGTGCCAGCCGACCTACGAGCTGCAGAACAGCTGGCTGCCTGCACGCGGGCCCTGGAGAGCT  
 CCGAGGAGCTTCTGGAGACAGCCAACAGACTCTGCAGGCCATGGACAGCGAGGACTTTCCTCAGGCTGC  
 CAAGCAAATCAAAGATGGAGTGACCATGGCCCCTGCCTCCGGCTATCATTGAAAGCGAAGGTCACTGAC  
 AACATGAGTCACCTCATGGTGGACTTCGCGCAAGAGCGGCAGATGCTACAGGCACTCAAGTTCCTGCCTG  
 TGCCACGCGCACCCGTGATCGACCTGGTGAGTCCCTGGTGGCAGATAACTGTGTACCCCTGGTGTGGCG  
 CATGCCGATGAGGACAGCAAGATTGACCACTACGTGCTGGAGTACCGGCGGACCAACTTCGAGGGCCCG  
 CCCCCTCAAGGAGGACGACCCCTGGATGGTATCGAGGGCATCCGGCAGACAGAGTACACCTGACAG  
 GTCTCAAGTTTGACATGAAATACATGAACCTCCGTGTGAAGGCCTGTAAACAAGGCAGTTGCAGGAGATT  
 CTCTGAGCCGGTGACTCTGGAGACACGCGTTTCATGTTCCGCTGGATGCGTCCACATCCCACCAAGAAC  
 CTGCGGGTGGATGATCTCTCCGTGGAGTGGGACGCTATGGGCGGAAGGTGCAGGATATCAAGGCTCGCG  
 AGAAAGATGGCAAGGGGCGGACGCGCTCTCCATCAACTCCCCAGCCAGAGGTACTCCATCTCCCAAGAG  
 GATGCCCTCAGGTCGTGGGGACGGGACCGCTTACCGCTGAGTCTACACAGTTCTGGGGACACGCTG  
 ATCGACGCGGGGAGCATTACTGGGAGGTGCGCTACGAGCCGACAGCAAGGCGTTCGGCGTGGCGTGG  
 CCTACCGCAGCCTGGGCCGCTTCGAGCAACTGGGCAAGACGGCCGCTCCTGGTGCCTGCACGTCAACAA  
 TTGGCTGCAGGTCAAGTTCACGGCCAAGCAGCCAAACAAGGTCAAGGTGCTGGACGCCCCGTGCCCGAC  
 TGCTGGGTGTGCACTGTGACTTCCACCAAGGCCTCCTGTCTTCTACAATGCCCCACCAACAAGTGC  
 TGCACTTTCAAGACAGGTTACACAGCCGCTGCTGCTGCTTACGGTATGGTGTGGCAGCTTCCA  
 GGTGACGACAGGCTGCAGGTCCCAGTGTGTGCGCTGCCTGCAAAAGCGAGGCAGTGTACCAGCAGC  
 TCCAACACCAGCCTCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200994 protein sequence  
 Red=Cloning site Green=Tags(s)

MEEQREALRKIIKTLAVKNEEIQSFIYSLKQMLLNVEANSKQVEDLEAEFQSLFSLLEELKEGMLMKIK  
 QDRASRTYELQNQLAACTRALESSEELLE TANQTLQAMDEDFPQAAKQIKDGVMTAPFRLSLKAKVSD  
 NMSHLMVDFAQERQMLQALKFLPVPSAPVIDLAESLVADNCVTLVWRMPDEDSKIDHYVLEYRRTNFEGP  
 PRLKEDQPMVIEGIRQTEYTLTGLKFDKYMNFVRKACNKAVAGEFSEPVLTETPAFMFRLDASTSHQN  
 LRVDDLSEWDAMGGKVQDIKAREKDGKRTASPINSPARGTPSPKRMPSGRGGRDRFTAESYTVLGD  
 IDGGEHYWEVRYEPDSKAFGVGVAYRSLGRFEQLGKTAASWCLHVNWLQVSFTAKHANKVKVLDAPVPD  
 CLGVHCFHQGLLSFYNARTKQVLHTFKTRFTQPLLPAFTVWCGSFQVTTGLQVPSAVRCLQKRGATSS  
 SNTSLT

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6675\\_b01.zip](https://cdn.origene.com/chromatograms/mk6675_b01.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_024333

**ORF Size:** 1488 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\\_024333.1](#), [NP\\_077309.1](#)

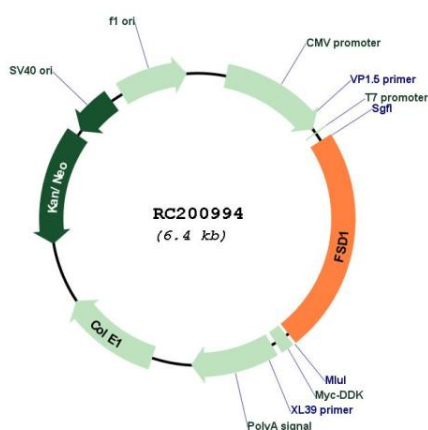
**RefSeq Size:** 1865 bp

**RefSeq ORF:** 1491 bp

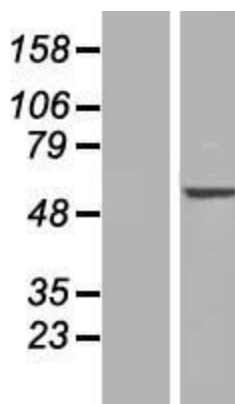
**Locus ID:** 79187

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt ID:       | <a href="#">Q9BTV5</a>                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cytogenetics:     | 19p13.3                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Domains:          | BBC, SPRY, FN3                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein Families: | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                   |
| MW:               | 55.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Summary:     | This gene encodes a centrosome associated protein that is characterized by an N-terminal coiled-coil region downstream of B-box (BBC) domain, a central fibronectin type III domain, and a C-terminal repeats in spla and RyR (SPRY) domain. The encoded protein associates with a subset of microtubules and may be involved in the stability and organization of microtubules during cytokinesis. [provided by RefSeq, Apr 2009] |

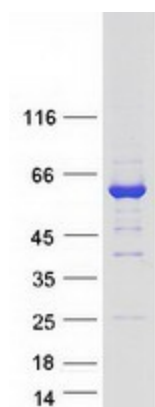
## Product images:



Circular map for RC200994



Western blot validation of overexpression lysate (Cat# [LY411292]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200994 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FSD1 protein (Cat# [TP300994]). The protein was produced from HEK293T cells transfected with FSD1 cDNA clone (Cat# RC200994) using MegaTran 2.0 (Cat# [TT210002]).