

## Product datasheet for **RC201153**

### FVT1 (KDSR) (NM\_002035) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FVT1 (KDSR) (NM_002035) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FVT1
Synonyms:	DHSR; EKVP4; FVT1; SDR35C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201153 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCTGCTGGCTGCCGCTTCCTCGTGGCCTTCGTGCTGCTGCTGTACATGGTGTCTCCGCTCATCA  
GCCCCAAGCCCCTCGCCCTGCCGGGCGCATGTGGTGGTTACAGGAGGTTCCAGTGGCATCGGGAAGTG  
CATTGCTATCGAGTGCTATAAACAAGGAGCTTTTATAACTCTGGTTGCACGAAATGAGGATAAGCTGCTG  
CAGGCAAAGAAAATGAAATGCACTCTATTAATGACAAACAGGTGGTACTTTGCATATCAGTTGATG  
TATCTCAAGACTATAACCAAGTAGAGAATGTCATAAAACAAGCACAGGAGAACTGGGTCCAGTGGACAT  
GCTGGTAAATTTGCAGGAATGGCAGTGTGAGGAAATTTGAAGATCTTGAAGTTAGTACCTTTGAAAGG  
TTAATGAGCATCAATTACCTGGGCAGCGTGTACCCAGCCGGGCCGTGATCACCACCATGAAGGAGCGCC  
GGGTGGGCAGGATCGTGTGTTGTCTCCAGGCAGGACAGTTGGGATTATTCGGTTTCACAGCCTACTC  
TGCATCCAAGTTTGCCATAAGGGGATTGGCAGAAGCTTTGCAGATGGAGGTGAAGCCATATAATGTCTAC  
ATCACAGTTGCTTACCCACCAGACACAGACACCTGGCTTTGCCGAAGAAAACAGAACAAAGCCTTTGG  
AGACTCGACTTATTTAGAGACCACATCTGTGTGCAAACCAGAACAGGTGGCCAAACAAATTGTTAAGA  
TGCCATAACAAGGAAATTTCAACAGTTCCCTTGGCTCAGATGGGTACATGCTCTCGGCCCTGACCTGTGG  
ATGGCTCCAGTAACTTCTATTACTGAGGGGCTCCAGCAGGTGGTCACCATGGCCCTTTCCGCACTATTG  
CTTTGTTTTACCTTGAAGTTTTGACAGCATAGTTCGTGCTGCATGATGCAGAGAGAAAAATCTGAAAA  
TGCAGACAAAAGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201153 protein sequence  
Red=Cloning site Green=Tags(s)

MLLLAAFLVAFVLLLYMVSPLISPKPLALPGAHVVTGGSSGIGKICIAIECYKQGAFITLVARNEDKLL  
 QAKKEIEMHSINDKQVVLCSVDVSDYNQVENVIKQAQEKLGPDVMLVNCAGMAVSGKFEDLEVSTFER  
 LMSINYLGSVYPSRAVITTMKERRVGRIVFVSSQAGQLGLFGFTAYSASKFAIRGLAEALQMEVKPYNVY  
 ITVAYPPDTPGFAEENRTKPLETRLISETTSVCKPEQVAKQIVKDAIQGNFNSSLGSDGYMLSALTCG  
 MAPVTSITGLQQVVTMGLFRTIALFYLGSDSIVRRMMQREKSENADKTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6409\\_b09.zip](https://cdn.origene.com/chromatograms/mk6409_b09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002035

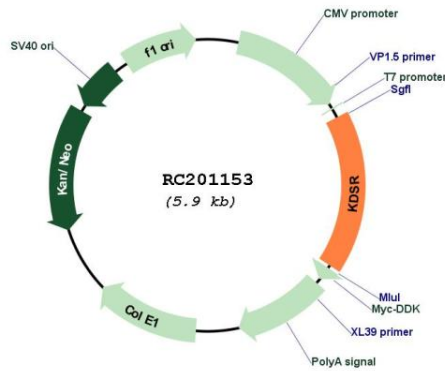
**ORF Size:** 996 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

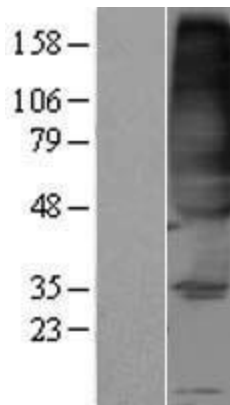
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002035.4</a>
<b>RefSeq Size:</b>	5198 bp
<b>RefSeq ORF:</b>	999 bp
<b>Locus ID:</b>	2531
<b>UniProt ID:</b>	<a href="#">Q06136</a>
<b>Cytogenetics:</b>	18q21.33
<b>Domains:</b>	adh_short
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Sphingolipid metabolism
<b>MW:</b>	36.2 kDa
<b>Gene Summary:</b>	The protein encoded by this gene catalyzes the reduction of 3-ketodihydrosphingosine to dihydrosphingosine. The putative active site residues of the encoded protein are found on the cytosolic side of the endoplasmic reticulum membrane. A chromosomal rearrangement involving this gene is a cause of follicular lymphoma, also known as type II chronic lymphatic leukemia. The mutation of a conserved residue in the bovine ortholog causes spinal muscular atrophy. [provided by RefSeq, Jul 2008]

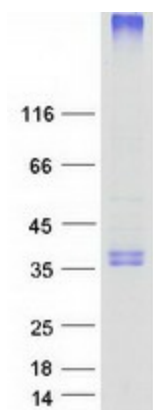
Product images:



Circular map for RC201153



Western blot validation of overexpression lysate (Cat# [LY419576]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201153 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KDSR protein (Cat# [TP301153]). The protein was produced from HEK293T cells transfected with KDSR cDNA clone (Cat# RC201153) using MegaTran 2.0 (Cat# [TT210002]).