

## Product datasheet for **SC321528**

### FVT1 (KDSR) (NM\_002035) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FVT1 (KDSR) (NM_002035) Human Untagged Clone
Tag:	Tag Free
Symbol:	FVT1
Synonyms:	DHSR; EKVP4; FVT1; SDR35C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002035.1  
 GCCCCGGCCCGCAAACCCAAACACTCCAGGCGCCCGCCCGCGCGTGATTCTCGCCTC  
 GCCGCAGCCAGCCCTGCGCGCCTTGCCCGGGCGCCCGCCCGGCGCTCCGGGCCCT  
 GGCCCGCGGAGCGATGCTGCTGGCTGCCGCTTCTCGTGGCTTCGTGCTGCTG  
 TGTACATGGTGTCTCCGCTCATCAGCCCAAGCCCTCGCCCTGCCCGGGGCGCATGTGG  
 TGGTTACAGGAGGTTCCAGTGGCATCGGGAAGTGCATTGCTATCGAGTGCTATAACAAG  
 GAGCTTTTATAACTCTGGTTGCACGAAATGAGGATAAGCTGCTGCAGGCAAAGAAAGAA  
 TTGAAATGCACTCTATTAATGACAAACAGGTGGTACTTTGCATATCAGTTGATGTATCTC  
 AAGACTATAACCAAGTAGAGAATGTCATAAAACAAGCACAGGAGAACTGGGTCCAGTGG  
 ACATGCTGGTAAATTGTGCAGGAATGGCAGTGTGAGGAAAATTTGAAGATCTTGAAGTTA  
 GTACCTTTGAAAGGTTAATGAGCATCAATTACCTGGCAGCGTGTACCCAGCCGGGCCG  
 TGATCACCACCATGAAGGAGCGCCGGTGGCAGGATCGTGTGTTGTCTCCAGGCAG  
 GACAGTTGGGATTATTCGGTTTCACAGCCTACTCTGCATCCAAGTTTGCATAAGGGGAT  
 TGGCAGAAGCTTTCAGATGGAGGTGAAGCCATAATGTCTACATCACAGTTGCTTACC  
 CACCAGACACAGACACCTGGCTTTGCCGAAGAAAACAGAACAAGCCTTTGGAGACTC  
 GACTTATTTAGAGACCACATCTGTGTGCAAACAGAACAGGTGGCCAAACAAATTTGTTA  
 AAGATGCCATACAAGAAATTTCAACAGTTCCTTGGCTCAGATGGGTACATGCTCTCGG  
 CCCTGACCTGTGGGATGGCTCCAGTAACTTCTATTACTGAGGGGCTCCAGCAGGTGGTCA  
 CCATGGGCCTTTCCGCACTATTGCTTTGTTTTACCTTGGAAGTTTTGACAGCATAGTTC  
 GTCGCTGCATGATGCAGAGAGAAAAATCTGAAAATGCAGACAAAACACTGCCTAATCTTCTT  
 ACCCCTTGAAGAAGACTGTTTTCAAATAATTTGAACAGCTTGTGCTAAATGGGACCCA  
 ATTTTTGGCCTATAGACACTTATGTATTGTTTTGGAATACGTGAGATTGGACAGTGCTC  
 TTCAGGAATGTGGCTGCAAGCAAGGGGCTAGAAGTTCACCTCCTGACAGTATTATTAATA  
 CTATGCAAATATGGAATAGGAGACCATTTGATTTTCTAGGCTTTGTGGTAGAGAGGTGAA  
 GGTATGAGAATTAATAGCGTGTGAACAAAGTAAAGAACAGGATTCCAGAATGATCATTAA  
 ATTTGTTTCTATTTATTCTTTTTGCCCCCTAGAGATTAAGTCCAGAAATGACTTTCT  
 GGCACATAAAGAAATCTTGAGGACTTTGTTTAAACCTTCCATAAAAAACAATTTTGCTT  
 ATACTGCTGTAATATTTTGTAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_002035

**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](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<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>	<u><a href="#">NM_002035.1</a></u> , <u><a href="#">NP_002026.1</a></u>
<b>RefSeq Size:</b>	2272 bp
<b>RefSeq ORF:</b>	999 bp
<b>Locus ID:</b>	2531
<b>UniProt ID:</b>	<u><a href="#">Q06136</a></u>
<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>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]