

## Product datasheet for **SC119252**

### OVCA1 (DPH1) (NM\_001383) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OVCA1 (DPH1) (NM_001383) Human Untagged Clone
Tag:	Tag Free
Symbol:	OVCA1
Synonyms:	DEDSSH; DPH2L; DPH2L1; OVCA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001383, the custom clone sequence may differ by one or more nucleotides

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ATGCGCAGGCAGGTGATGGCGGCCTGGTCGTATCCGGGGCAGCGGAGCAGGGCGGCCGAGACGGCCCTG
GCAGAGGTCGGGCCCTCGGGCCGCGTGGCCAATCAGATCCCCCTGAGATCCTGAAGAACCCTCAGCT
GCAGGCAGCAATCCGGGTCCTGCCTTCAAACAACCTTTGAGATCCCCAAGACCATCTGGAGGATCCAA
CAAGCCCAGGCCAAGAAGGTGGCCTTGCAAATGCCGGAAGGCCTCCTCCTTTGCTGTACCATTGTGG
ATATCTTGAAAGGTTACCGGAGGCCGAAGTGATGGTGATGGGTGACGTGACCTACGGGGCTTGCTGTGT
GGATGACTTACAGCGAGGGCCCTGGGAGCTGACTTCTTGGTGCACTACGGCCACAGTTGCCTGATTCCC
ATGGACACCTCGGCCAAGACTTCCGGGTGCTGTACGTCTTTGTGGACATCCGGATAGACTACACACC
TCCTGGACTCTCTCCGCCTCACCTTCCCCAGCCACTGCCCTTGCCCTGGTCAGCACCATTCAGTTTGT
GTCGACCTTGAGGCAGCCGCCAGGAGCTGAAAGCCGAGTATCGTGTGAGTGTCCACAGTGCAAGCCC
CTGTCCCCGGAGAGATCCTGGGCTGCACATCCCCCGACTGTCCAAAGAGGTGGAGGCCGTTGTGTATC
TTGGAGATGGCCGCTTCCATCTGGAGTCTGTATGATTGCCAACCCTAATGTCCCCGCTTACCGGTATGA
CCCATATAGCAAAGTCTATCCAGAGAACAATGACCACCAGCGCATGCAGGCTGCTCGCCAAGAAGCC
ATAGCCACTGCCCGCTCAGCTAAGTCTGGGGCCTTATTCTGGGCACTTTGGGCCGCCAGGGCAGTCCTA
AGATCCTGGAGCACCTGGAATCTCGACTCCGAGCCTTGGGCCCTTCCCTTTGTGAGGCTGCTGCTCTGA
GATCTTCCCAGCAAGCTTAGCCTACTTCTGAGGTGGATGTGTGGTGCAGGTGGCATGTCCACGTCCTC
TCCATTGACTGGGGCACAGCCTTCCCCAAGCCGCTGCTGACACCCTATGAGGCGGCCGTGGCTCTGAGGG
ACATTTCTGGCAGCAGCCCTACCCGATGGACTTCTACGCTGGCAGCTCCTTGGGGCCCTGGACGGTGAA
CCACGGCCAGGACCGCCGTCACCCAGCCCGGGCCGCGCGGGGGAAGGTGCAGGAGGGTCCGCG
CGTCCCCCTCGGCCGTGGCTTGCAGGACTGCAGCTGCAGGACGAGAAGGTGGCGCCGCTGGCTCCTT
GA
  
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001383 unedited</p> <pre>GTGCAAATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACTGATGGCGGCCTG GTCGTATCCGGGGCAGCGGAGCAGGGCGGCCGAGACGGCCCTGGCAGAGGTCTGGGCCCT CGGGCCCGCTGGCCAATCAGATCCCCCTGAGATCCTGAAGAACCCTCAGCTGCAGGCA GCAATCCGGGTCTGCCTTCCAACATACTTTGAGATCCCCAAGACCATCTGGAGGATC CAACAAGCCAGGCCAAGAAGGTGGCCTTGCAAATGCCGAAGGCCTCCTCTTTGCC TGTACCATTGTGGATATCTTGGAAAGTTACGGAGGCCGAAGTATGGTATGGGTGAC GTGACCTACGGGCTTGCTGTGTGGATGACTTACAGCGAGGGCCCTGGGAGCTGACTTC TTGGTGCCTACGGCCACAGTTGCTGATTCCCATGGACACCTCGGCCCAAGACTTCCGG GTGCTGTACGTCTTTGTGGACATCCGGATAGACTACACACCTCCTGGACTCTCTCCGC CTCACCTTTCCCCAGCCACTGCCCTTGCCTGGTCCAGCCATTTAGTTTTGTGTCGAC CTTGCANGCAGCCGCCAGGAGCTGAAAGCCGAGTATCGTGTGAGTGTCCACAGTGCAA GCCCTGTCCCCTGGAGAGATCCTGGGCTGCACATCCCCCGACTGTCAAAGAGGTGGG AGGCCGTTGTGTATCTTGGAGATGGCCGCTTCATCTGGAGTCTGTCATGATTGCCAAC CCATGTCCCCGTTACCGGTATGACCCATATAGCANAGTCTATCCAGAGAACACTATGA CCACCAGCGCATCAGGCTGCTGCCAAGAAGCCATAGCCACTGGCCGCTCAGTAGTTC TGGGGCCTTATTCTGGGCACTT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001383 unedited</p> <pre>TATGTACCGCGGCACGCAATCTAGAATTTTTTTTTTTTTTTTTTTTCCAAATCACCCTT TATTATGTGGCAGTCACCATGGTGCCAGCCTCTGCCTTCCCATGTCACCCTCCTAATCC AGGGCTCTCAACCATATTCATGTTTGGTTTTTACAAGTCAATGTCCATTAAGGCCTTG TGCTCCCCTTTTCTTACAGTACAGGGCAGGGCCCTATAATTTGGGTCTCAAGAATTGATA GTTGTCTCTTAACTGGTTCTGGTGGAGGCGACTCACAGCAGTGTGAGGGTCCCTGGGA GGGCATGGATGACGGAGGCTGCCCTAAAGGAGCTGGATGTAGGACCAAGACATTTCTT GATCTTTCACTCTGAAACTGGTCCAAGAACTTGAGGCAGGCCCGACGCTGGGGTGCACC CTGCCGAATGAAATGGCCCCACAGTGGGCTCAGGGCGACTCCCCCTTCAAACGACCG GCCCGTCCCCCCCCACCTCCACCACCCTACTGCCCTCCCCCAACTTCGCATCAT TTGCCCGCGCCCCCGTACCCCGCCCCCCTTCTCATTCTCCCCTGCCTCTCTCCC CATAGACCCCTTAACCCCACTACTCTCCCCCATCATTCCCTGCCTCTGTATCC CCCACCGCGCCTTTCTATACCACACCTCTCCCCACACTCTCCCGCTCTCTTTCTTT AACACTNTACCCCCACACTACTCTCCTTTCCATCCCNACCCTCCCGGACCGTTTTT CTCCTCGCCCTTTACCCGGCCTTCTCACCTACCCCTCACTCACCTATTACTACCCA CGCCTCACTCGCACCCCCCATCTACACGCTATCTTCCCTCCTCCTCACACTACCCC CATAACTACATCGTCCCCTCAACAGATTACTACTACCTCACTCTACCCCTCACTCCA TTTTTCTCATCTCCTTCTTCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001383
<b>Insert Size:</b>	2550 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).

**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\\_001383.1](#), [NP\\_001374.1](#)

**RefSeq Size:** 2200 bp

**RefSeq ORF:** 1092 bp

**Locus ID:** 1801

**UniProt ID:** [Q9BZG8](#)

**Cytogenetics:** 17p13.3

**Domains:** Diphthamide\_syn

**Gene Summary:** The protein encoded by this gene is an enzyme involved in the biosynthesis of diphthamide, a modified histidine found only in elongation factor-2 (EEF2). Diphthamide residues in EEF2 are targeted for ADP-ribosylation by diphtheria toxin and Pseudomonas exotoxin A. Defects in this gene have been associated with both ovarian cancer and autosomal recessive intellectual disability with short stature, craniofacial, and ectodermal anomalies. [provided by RefSeq, Oct 2016]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.