

Product datasheet for **RG221955**

OVCA1 (DPH1) (NM_001383) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OVCA1 (DPH1) (NM_001383) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPH1
Synonyms:	DEDSSH; DPH2L; DPH2L1; OVCA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221955 representing NM_001383 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCAGGCAGGTGATGGCGGCCTGGTCTGATCCGGGGCAGCGGAGCAGGGCGGCCGAGACGGCCCTG
GCAGAGGTCGGGCCCTCGGGCCCGCTGGCCAATCAGATCCCCCTGAGATCCTGAAGAACCCTCAGCT
GCAGGCAGCAATCCGGTCTGCCTTCCAACACTACAACCTTGGAGATCCCCAAGACCATCTGGAGGATCCAA
CAAGCCCAGGCCAAGAAGGTGGCCTTGCAATGCCGGAAGGCCTCCTCCTTTGCTGTACCATTTGTGG
ATATCTTGAAAGGTTACCGGAGCCGAAGTGATGGTGATGGGTGACGTGACCTACGGGGCTTGCTGTGT
GGATGACTTACAGCGAGGGCCCTGGGAGCTGACTTCTTGGTGCCTACGGCCACAGTTGCCTGATTCCC
ATGGACACCTCGGCCAAGACTTCCGGGTGCTGTACGTCTTTGTGGACATCCGGATAGACTACACACC
TCTGGACTCTCTCCGCCTCACCTTTCCCCAGCCACTGCCCTTGCCTGGTCAGCACCATTAGTTTGT
GTGCACCTTGAGGCAGCCGCCAGGAGCTGAAAGCCGAGTATCGTGTGAGTGTCCACAGTGCAAGCCC
CTGTCCCCTGGAGAGATCCTGGGCTGCACATCCCCCGACTGTCCAAAGAGGTGGAGGCCGTTGTGTATC
TTGGAGATGGCCGCTTCCATCTGGAGTCTGTATGATTGCCAACCCTAATGTCCCGCTTACCGGTATGA
CCCATATAGCAAAGTCTATCCAGAGAACAATGACCACCAGCGCATGCAGGCTGCTCGCCAAGAAGCC
ATAGCCACTGCCGCTCAGCTAAGTCTGGGGCCTTATTCTGGCACTTTGGGCCCCAGGGCAGTCCCTA
AGATCCTGGAGCACCTGGAATCTCGACTCCGAGCCTTGGCCCTTCTTTGTGAGGCTGCTCTCTGA
GATCTTCCCAGCAAGCTTAGCCTACTTCTGAGGTGGATGTGTGGGTGCAGGTGCCATGTCCACGTCTC
TCCATTGACTGGGGCACAGCCTTCCCCAAGCCGCTGCTGACACCCTATGAGGCGGCCGCTGGCTCTGAGGG
ACATTTCTGGCAGCAGCCCTACCCGATGGACTTCTACGCTGGCAGCTCCTTGGGGCCCTGGACGGTGAA
CCACGGCCAGGACCGCCGTCACCCAGCCCGGGCCGCGCGGGGGAAGGTGCAGGAGGGTCCGCG
CGTCCCCTTCCGGCCGCTGGCTTGCAGGACTGCAGCTGCAGGGACGAGAAGGTGGCGCCGCTGGCTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221955 representing NM_001383
 Red=Cloning site Green=Tags(s)

MRRQVMAALVMSGAAEQGGRDGPGRGRAPRGRVANQIPPEILKNPQLQA AIRVLP SNYNFEIPKTIWRIQ
 QAQAKKVALQMP ELLLLFACTIVDILERFTEAEVMVMDV TYGACCVDDFTARALGADFLVHYGHSCLIP
 MDTSAQDFRVLVYFVDIRIDTTHLLDSLRLTFPPATALALVSTIQFVSTLQAAAQELKAEYRVSPQCKP
 LSPGEILGCTSPRLSKEVEAVVYLGDRFHLESVMIANPNVPAYRYDPYSKVL SREHYDHQRMQAARQEA
 IATARSAKSWGLILGTLGRQGSPKILEHLESRLRALGLSFVRLLLSEIFPSKLSLLPEVDYVWQVACPRL
 SIDWGTAFPKPLLTPYEAAVALRDISWQPYPMDFYAGSSSLGPWTVNHGQDRRHAPGRPAR GKVQEGSA
 RPPSAVACEDCSRDEKVAPLAP

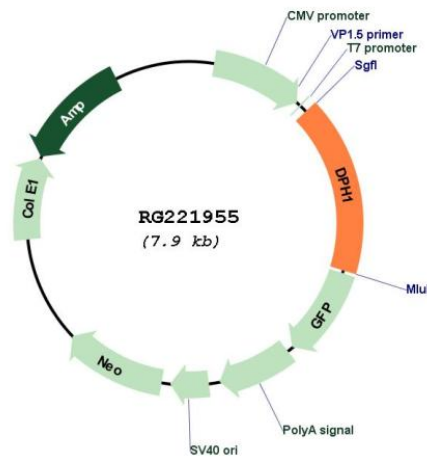
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001383

ORF Size:	1329 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:	<ol style="list-style-type: none">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_001383.4
RefSeq Size:	2200 bp
RefSeq ORF:	1317 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]