

## Product datasheet for **SC325335**

### OGDHL (NM\_001143997) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OGDHL (NM_001143997) Human Untagged Clone
Tag:	Tag Free
Symbol:	OGDHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC325335 representing NM\_001143997.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTTCATCAACGATGTGGAGCAGTGCCAGTGGATCCGGCAGAAGTTTGAAGCCCTGGTGTGATGCAG
TTCTCCAGCGAGGAGAAGCGGACCCTGCTGGCCCGGCTAGTGCCTCCATGAGGTTTGAAGACTTCTTG
GCCGGAAATGGTCTCAGAGAAGCGGTTTGGCCTGGAGGGCTGTGAAGTATGATTCTGCCCTCAAG
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GAGGCGCGGACGAGGGCTCCGGGGATGTCAAGTACCACCTGGGCATGTACCATGAGAGGATCAACCGC
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CGAATGGCCCGCTCCTCACCATACCCGACCGACGCTGGCCCGGGTGGTCAATGCGCCTATCTTCCATGTG
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CAGATCCTGCTGCCCTTCCGCAAGCCGCTGATTATCTTACACCTAAATCTCTGCTGAGGACCCAGAG
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GCAGCAGGGGCCCTGAGCAGGTGCAGCGGCTCATCTTCTGCACGGGAAAGGTGACTATGACCTGGTG
AAGGAGCGGAGCAGCCAGGACCTGGAGGAGAAAGTGGCCATCACGCGCTGGAGCAGATCTTCCATTC
CCCTTCGACCTGATCAAGCAGGAGGCAGAGAAGTACCCAGGTGCGGAGCTGGCCTGGTGTGAGGAGG
CACAAGAACATGGGCTACTATGACTACATCAGCCACGCTTTCATGACCATCTGAGGCGCGCAGGCC
ATATGGTATGTTGGCCGGACCCAGCGGCTGCACCAGCCACAGGAAACAGGAACACTCACCTGGTGTCA
CTGAAGAAGTTTCTGGATACTGCCCTTCAATCTCCAGCCTTTGAGGGCAAGACATTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001143997

**Insert Size:** 2406 bp

**OTI Disclaimer:** 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>OTI Annotation:</b>	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>	<a href="#">NM_001143997.1</a>
<b>RefSeq Size:</b>	3398 bp
<b>RefSeq ORF:</b>	2406 bp
<b>Locus ID:</b>	55753
<b>UniProt ID:</b>	<a href="#">Q9ULD0</a>
<b>Cytogenetics:</b>	10q11.23
<b>Protein Pathways:</b>	Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways, Tryptophan metabolism
<b>MW:</b>	91.2 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is similar to oxoglutarate dehydrogenase (OGDH) of the OGDH complex, which degrades glucose and glutamate. This gene encodes several isoforms, including some that appear to localize to mitochondria. The encoded protein down-regulates the AKT signaling cascade and can suppress the growth of cervical cancer cells. [provided by RefSeq, Dec 2016]</p> <p>Transcript Variant: This variant (3) lacks two alternate in-frame exons in the 5' coding region and uses a downstream start codon, compared to variant 1. Isoform c has a shorter N-terminus, compared to isoform a. Variants 3, 6, and 7 all encode the same isoform (c).</p>