

## Product datasheet for RR200893L4

### Ogdhl (NM\_001106062) Rat Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ogdhl (NM_001106062) Rat Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Ogdhl
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RR200893).
Restriction Sites:	Sgfl-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

ACCN:	NM_001106062
ORF Size:	3087 bp



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<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_001106062.1</a> , <a href="#">NP_001099532.1</a>
<b>RefSeq Size:</b>	3546 bp
<b>RefSeq ORF:</b>	3090 bp
<b>Locus ID:</b>	290566
<b>Cytogenetics:</b>	16p16
<b>Gene Summary:</b>	2-oxoglutarate dehydrogenase (E1-like) component of the 2-oxoglutarate dehydrogenase multienzyme complex (OGDHC) which mediates the decarboxylation of alpha-ketoglutarate in the tricarboxylic acid cycle (PubMed:18783430). The OGDHC complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2) while reducing NAD(+) to NADH (PubMed:18783430). The OGDHC complex is mainly active in the mitochondrion (PubMed:18783430). Involved in the inhibition of cell proliferation and in apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]