

## Product datasheet for **RN200893**

### Ogdhl (NM\_001106062) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ogdhl (NM_001106062) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ogdhl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN200893 representing NM_001106062 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCAGCTGCGGCTGCTGCTGTTTCAGGTTGGGGCCACAGGCCAGGAAGCTCCTGGCCACACGGGATA  
TCGCAGCGTTCGGTGGGCGCAGGAGGTCTTCTGGGCCACCCACTACCATCCCACGGAGCAGAGGTGGAGT  
CAGCCCCAGTTATGTGGAGGAGATGTACTTTGCCTGGTTGGAAAACCCCTCAGAGCGTCCACAAGTCCTGG  
GACAACCTCTCCAGAGAGCCACTAAGGAGGCCCTCTGTGGTCTGCTCAGCCACAGCCCCAGCCGCTCA  
TCCAAGAGAGCAGGGCGTCAGTGTCAAGTTGCACCAAGACCAGCAAGCTTGTAGAAGACCCTTGGCGGT  
ACAGTCTCTCATCCGTGCCTACCAGATCCGAGGCCACCATGTGGCCAGCTGGACCCCTGGGCATCCTG  
GATGCAGACCTGGACTCCTTTGTGCCCTCGGACTTGATCACAAACCATTGATAAAATTGGCCTTCTATGACC  
TGCAGGAGGCTGATCTGGACAAGGAGTTCGGCTGCCACCCTACTTTTATTGGTGGCTCGGAGAACAC  
ACTCTCTCTTCGAGAGATCATACGGCGCCTGGAGAGCACCTACTGCCAGCATATTGGCCTGGAGTTCATG  
TTTATTAACGATGTGGAGCAGTCCAGTGGATCAGACAGAAATTTGAAACTCCTGGTGTGATGAAGTTTT  
CCATCGAGGAGAAGCGGACCCTGCTGGCCAGGCTGGTGCCTCCATGAGGTTTGAAGACTTTTTGGCCAG  
GAAGTGGTCTTCAGAGAAGCGGTTTGGCCTGGAAGGCTGTGAGGTCATGATCCCTGCTCTCAAGACCATT  
ATCGACAAATCTAGTGAGATGGGGTTGAAAACGTCATCTGGGGATGCCACACAGGGGCAGGCTGAATG  
TGCTGGCTAATGTGATCCGCAAGGACCTGGAACAGATCTTCTGTGAGTTTATCCAAACTGGAAGCAGC  
AGACGAGGGCTCTGGTGACGTCAAATACCATCTGGGCATGTACCATGAGAGGATCAACCGTGTCCACCAAC  
AGAAACATCACACTGTCGCTGGTGGCCAACCTTCCCACCTGGAAGCTGTGGACCCTGTGGTTTCAGGGGA  
AGACGAAGGCAGAGCAGTTCTACCGTGGGGATGCTCAGGGTAGGAAGTTCATGTCCATCCTGGTCCATGG  
GGATGCCGCTTTGCCGGCCAGGGGTCGTCTATGAGACCTTCCATCTCAGCGACCTGCCTTCTATACC  
ACCAACGGCACCCTGCATGTCGTGGTCAATAACCAGATTGGCTTACTACAGATCCCCGAATGGCTCGCT  
CCTCACCTTACCCACGGATGTGGCGCGGGTGGTTAATGCGCCCATCTTCCACGTGAACGCGGATGACCC  
AGAAGCGTGATCTATGTGTGCAGTGTGGCCCGGAGTGGAGGAACACCTTCAACAAAGATGTTGTTGTA  
GACCTGGTCTGTTACCGCCGGCGTGGCCACAATGAGATGGACGAGCCCATGTTCCAGCGAGCGCTCATGT  
ACAAGCAGATCCACAAGCAGGTACCCGTGCTGAAGAAAGTACGCAGACAAGCTCATCGCCGAGGGTACAGT



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CACCCTGCAGGAGTTTGAGGAAGAAATTGCCAAATATGACCGCATCTGTGAGGAGGCCTACGGCAGGTCC  
 AAGGATAAAAAGATTCTGCATATAAAGCACTGGCTGGACTCGCCCTGGCCTGGCTTCTTCAATGTGGATG  
 GGGAGCCCAAGAGCATGACATACCCTACGACGGGCATCCCTGAGGACACGCTGAGCCACATTGGCAATGT  
 GGCCAGCTCTGTGCCCTGGAGGACTTTAAGATCCACACAGGTCTCTCTCGCATCCTGCGTGGCCGTGCA  
 GACATGACCAAGAAGCGCACAGTGGACTGGCCCTGGCAGAGTACATGGCCTTTGGTTCACTGCTGAAGG  
 AGGGCATCCATGTGCGGCTCAGTGGCCAGGATGTGGAGAGGGGCACATTCAGCCACCGGCACCATGTTCT  
 TCACGACCAGGACGTTGACCGGAGGACGTGTGCCAATGAATCACCTGTGGCCTGACCAGGCCCTTAC  
 ACTGTGTGCAATAGCTCCCTCTCAGAGTATGGAGTTCTAGGCTTTGAGCTGGGCTATGCCATGGCCAGCC  
 CCAACGCCCTGGTCTCTGGGAAGCTCAGTTTGGTGATTTCCACAACACAGCCCAGTGTATCATTGACCA  
 GTTCATCAGCACCGGCCAGGCCAAGTGGGTGCGGCACAATGGCATCGTACTTCTGCTGCCCCACGGCATG  
 GAGGGCATGGGTCCAGAGCACTCCTCAGCGAGGCCAGAGAGGTTCTGCAATGAGCAACGACGACTCAG  
 ACGCCTACCCTGTGTTCCCGGAGGACTTCGAGGTGAGCCAGCTCTATGACTGCAACTGGATCGTGGTGAA  
 CTGCTCTACACCGGCTAGCTACTCCACGTGCTGCGCCGGCAGGTCTGCTGCCCTCCGCAAGCCTGGT  
 TGGATGTGGGGACCCATAGATGGAGCTCCTGGCGGCTGGCTTTTTGCCTCCAGCTCATCGTCTTACAC  
 CCAAGTCTCTGCTGAGGCACCCTGATGCCAAGTCCAGCTTTGACCAGATGGTGTCCGGAAGTACTGCTTCCA  
 CGGGATGATTCCAGAAGACGGCCCGCGGCACAGTCTCCTGAGCGGTAGAGCGGCTCATCTTGCACA  
 GGAAGGTGTACTACGACCTGGTAAAGGAGCGCAGCAGCCAGGGCCTGGAGAAGCAAGTGGCCATCACAC  
 GCCTGGAGCAGATCTCTCCATTCCTTTTCGACCTGATCATGCGGGAGGCAGAGAAGTACTCAGGAGCTGA  
 GCTGGTGTGGTGTGAGGAAGAGCATAAGAACATGGGTTATTACGACTACATCAGTCCACGCTTCATGACT  
 CTCCTTGGCCACTCCCGGCCATATGGTATGTTGGCCGGGAACCAGCAGCCGCGCCAGCCACTGGAATA  
 AGAATACTCACTTGGTGTGCTGAGGAAGTTTCTGGATACCGCCTCAACCTGAAGGCCTTCGAGGGCAA  
 GACGTTTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001106062
- Insert Size:** 3090 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).
- 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:**
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\_001106062.1, NP\_001099532.1
- RefSeq Size:** 3546 bp
- RefSeq ORF:** 3090 bp

**Locus ID:** 290566

**Cytogenetics:** 16p16

**Gene Summary:** 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<sub>2</sub> 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]