

Product datasheet for **RG227996**

OGDHL (NM_001143996) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGDHL (NM_001143996) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OGDHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227996 representing NM_001143996
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTCAGCTGAGGCTGCTGCCGTCCCGTCTTGGGGTACAGGCTGCGAGGCTCCTGGTGCACATGACG
 TCCCGGTGTTGGCTGGCGCAGCAGGTCTCCGGGCCACCGCCACCTTCCCAAGCAGCAAAGGTGGAGG
 CGGCTCCAGTTACATGGAGGAGATGTACTTCGCTGGTTGGAAAACCCCAAGTGTCCACAAGATCCGG
 GGTACCATTGTGGCCAGCTGGACCCCTGGGCATTCTGGATGCAGACCTGGACTCCTTTGTGCCCTCAG
 ACTTGATCACAACCATTGATAAACTGGCCTTCTATGACCTTCAGGAGGCTGACCTTGATAAGGAGTTCCA
 GCTGCCGACAACCACCTTATTGGGGCTCTGAAAACACCCTCTCTGCGGGAGATCATTGCGCGCCTG
 GAGAACACCTACTGCCAGCACATTGGCCTGGAGTTCATGTTTCATCAACGATGTGGAGCAGTGCCAGTGA
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 GCTAGTGGCTCCATGAGTTTGAAGACTTCTGGCCCGAAATGGTCTCAGAGAAGCGGTTTGGCCTG
 GAGGGCTGTGAAGTGTGATTCCTGCCCTCAAGACCATCATCGACAAATCCAGCGAGATGGGGATTGAGA
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 GCAGATCTTGTCCAGTTTGACCCCAAGCTGGAGGCGGGCAGCAGGGCTCCGGGGATGTCAAGTACCAC
 CTGGGCATGTACCATGAGAGGATCAACCCTGTCACCAACCGGAACATCACTCTGTGCTGGTTGCCAACC
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 GGTCAATGCGCCTATCTTCCATGTGAATGCCGATGACCCAGAGGCTGTGATATATGTGTGAGTGTGGCA
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 TGTGGAGAGGGGCACATTCAATCACCGGACCATGTTCTCCATGACCAGGAGGTTGACCGCAGGACGTGT
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 GAGTCTGGGCTTTGAGCTGGGCTATGCCATGGCCAGCCCAATGCCCTGGTCTCTGGGAGGCCAGTT
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 GGAGCACAAGAACATGGGCTACTATGACTACATCAGCCACGCTTTCATGACCATCCTGAGGCGCGCACGG
 CCCATATGGTATGTTGGCCGGGACCCAGCGGCTGCACCAGCCACAGGAAACAGGAACTCACCTGGTGT
 CACTGAAGAAGTTTCTGGATACTGCCTCAATCTCCAGGCCTTTGAGGGCAAGACATTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG227996 representing NM_001143996
 Red=Cloning site Green=Tags(s)

MSQLRLLPSRLGVQAARLLAAHDVPVFGWRSRSGPPATFPSSKGGGSSYMEEMYFAWLENPQSVHKIR
 GHHVAQLDPLGILDADLDSFVPSDLITTTIDKLAFYDLQEADLDKEFQLPTTTFFIGGSENTLSLREIIRRL
 ENTYCQHI GLEFMFINDVEQCQWIRQKFETPGVMQFSSEKRTLLARLVRSMRFEDFLARKWSSEKRFGL
 EGCEVMIPALKTIIDKSSEMGIENVILGMPHRGRNLVLANVIRKDLQIFCQFDPKLEAADEGSGDVKYH
 LGMYHERINRVNTRNITLSLVANPSHLEAVDPVVQGKTKAEQFYRGDAQGKKVMSILVHGDAAFAGQGVV
 YETFHLSDLPSYTTNGTVHVVVNNQIGFTTDPMARSSPYPTDVARVVNAPIFHVNADDPEAVIYVCSVA
 AEWRNTFNKDVVVDLVCYRRRGHNEMDEPMFTQPLMYKQIHRQVPVLKKYADKLI AEGTVTLQEFEEIEIA
 KYDRICEEAYGRSKDKKILHIKHWLDSPWPGFFNVDGEPKSMTCPATGIPEDMLTHIGSVASSVPLEDFK
 IHTGLSRILRGRADMTKNRVTDWALAEYMAFGSLLKEGIHVRLSGQDVERGTFSHRHHVLDHQEVDRTTC
 VPMNHLWPDQAPYTVCNSSLSEYGVLFELGYAMASPVALVWEAQGDFHNTAQCIIDQFISTGQAKWV
 RHNGIVLLLPHGMEGMGPEHSSARPERFLQMSNDDSDAYPAFTKDFEVSQLYDCNWI VVNCSTPANYFHV
 LRRQILLPFRKPLIIFTPKSLLRHPEAKSSFQDMVSGTSFQRVIPEDGAAARAPEQVQRLEIFCTGKVVYD
 LVKERSQDLEEKVAITRLEQISPFDFLIKQEAKEYPGAELAWCQE EHKMGGYDYISPRFMTILRRAR
 PIWYVGRDPAAAPATGNRNTHLVSLKKFLDTAFNLQAFEGKTF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

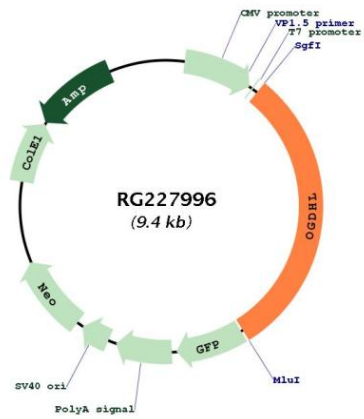
Cloning Scheme:



ACCN: NM_001143996

ORF Size:	2859 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_001143996.1 , NP_001137468.1
RefSeq Size:	3603 bp
RefSeq ORF:	2862 bp
Locus ID:	55753
UniProt ID:	Q9ULD0
Cytogenetics:	10q11.23
Protein Pathways:	Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways, Tryptophan metabolism
Gene Summary:	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]

Product images:



Circular map for RG227996