

## Product datasheet for **RG226502**

### OGDHL (NM\_001143997) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | OGDHL (NM_001143997) 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:**

>RG226502 representing NM\_001143997  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

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**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

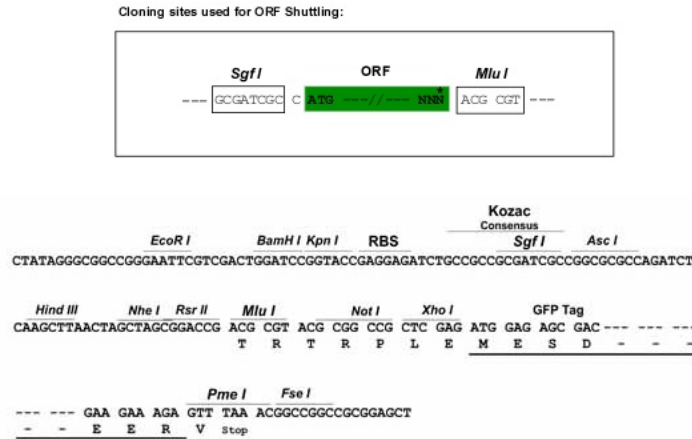
Protein Sequence: >RG226502 representing NM\_001143997  
 Red=Cloning site Green=Tags(s)

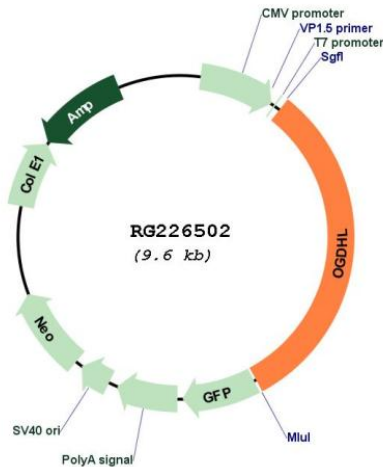
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 DADLDSFVPSDLITTIKLAFLYDLQEAADLDFEQLPTTTFIGGSENTLSLREIIRRENTYQCQHIGLEFM  
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 KDKKILHIKHWLNSPWPGFFNVDGEPKSMTCPATGIPEDMLTHIGSVASSVPLEDFKIHTGLSRILRGRA  
 DMTKNRTVDWALAEYMAFGSLLKEGIHVRLSGQDVERGTFSHRHHVLDHDEVDVRRTCVPMNHLWPDQAPY  
 TVCNSSLSEYGVLFELGYAMASPNALVLEAQFGDFHNTAQCIIDQFISTGQAKWVRHNGIVLLLPHGM  
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 IIFTPKSLLRHPEAKSSFDQMVSGTSFQVPIPEDGAAARAPEQVQRLIFCTGKVYYDLVKERSSQDLEEK  
 VAITRLEQISPFDFLIKQEAEKYPGAELAWCQEEHKNMGYYDYISPRFMTILRRARPIWYVGRDPAAAP  
 ATGNRNTHLVSLKKFLDTAFNLQAFEGKTF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001143997

**ORF Size:** 2403 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:**

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\\_001143997.1](#), [NP\\_001137469.1](#)

**RefSeq Size:** 3398 bp

**RefSeq ORF:** 2406 bp

**Locus ID:** 55753

**UniProt ID:** [Q9ULD0](#)

|                          |   |
|--------------------------|---|
| <b>Cytogenetics:</b>     | 10q11.23  |
| <b>Protein Pathways:</b> | Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways, Tryptophan metabolism  |
| <b>Gene Summary:</b>     | 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] |