

Product datasheet for **RG226938**

DOHH (NM_001145165) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DOHH (NM_001145165) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DOHH
Synonyms: hDOHH; HLRC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG226938 representing NM_001145165
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGACGGAGCAGGAGGTGGATGCCATCGGGCAGACGCTGGTGGACCCCAAGCAGCCCCTGCAGGCC
 GCTTCCGGGCGCTGTTACAGCTGCGTGGGCTCGGGCGCCAGGCGCCATTGCATGGATCAGCCAGGCCTT
 CGATGACGATCCGCCCTGCTCAAGCACGAGCTGGCCTACTGCCTGGCCAGATGCAGGATGCCCGGCC
 ATCCCATGCTGGTGGACGTGCTGCAAGACACCCGTCAGGAGCCCATGGTGCATGAGGCAGGGGAGG
 CCCTGGGGCCATCGGGACCCGAAGTCTGGAGATCCTGAAGCAGTATTCCTCGGACCCCGTCATCGA
 GGTGGCCGAGACCTGCCAGCTGGCCGTGCGCAGGCTGGAGTGGCTGCAGCAGCACGGCGGGAGCCGGCG
 GCGGGACCTACCTCTCCGTGGACCTGCCCGCCGGCTGAGGAGCGTGACGTGGGGCGCTGCGGGAGG
 CGCTGCTGGATGAGTCCCGCCGCTCTTCGAGCGATACCGCGCCATGTTCCGCCCTGCGCAACGCGGGAGG
 CGAGGAGGCCGCCCTGGCGCTGGCCGAGGGTCTGCACTGTGGGAGCGCCCTTCCGCCACGAGGTCCGC
 TACGTCCTGGGACAGCTGCAGCACGAGGCGCGGTGCCAGCTGGCGGCCGCCCTGGCCGATGCACCG
 AGAACCCATGGTGGCGCAGAGTGCGCGGAGGCCCTGGCGCCATTGCCCGGCCCGCTGCCTGGCCGC
 GCTGCAGGCTCACGCGGACGACCCAGAGCGCGTGGTGGTGGAGCTGCCAGGTGGCTCTGGACATGTAT
 GAGCAGAGACCGGGCGGCCCTCCAGTACGCGGACGGCCTGGAGCAGCTGCGCGGGGCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226938 representing NM_001145165
Red=Cloning site Green=Tags(s)

MVTEQEVD AIGQTLVDPKQPLQARFRALFTLRGLGGPGAI AWISQAFDDDSALLKHELAYCLGQM QDARA
 IPMLVDVLQDTRQEP MVRHEAGEALGAIGDPEVLEILKQYSSDPVIEVAETCQLAVRRLEWLQHGGEPA
 AGPYLSVDPAPP AEERDVGRLEALLDESRLP FERYRAMFALRNAGGEEAALALAEGLHCGSALFRHEVG
 YVLGQLQHEAAVPQLAAALARCTENPMVRHECAEALGAIARPACLAALQAHADDPERVVRESCEVALDMY
 EHETGRAFYADGLEQLRGAPS

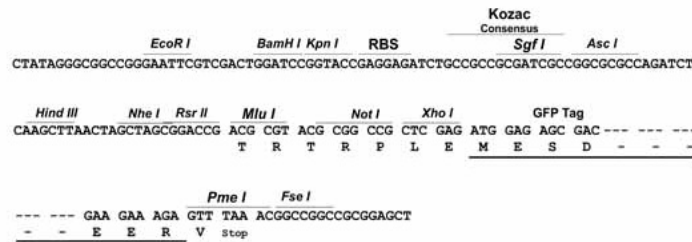
TRTRPLE - GFP Tag - V

Restriction Sites:

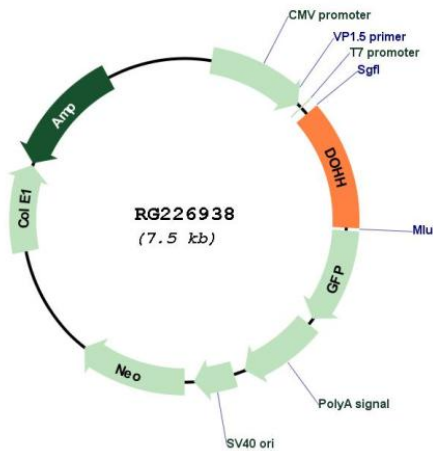
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001145165

ORF Size: 906 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_001145165.2
RefSeq Size:	2050 bp
RefSeq ORF:	909 bp
Locus ID:	83475
UniProt ID:	Q9BU89
Cytogenetics:	19p13.3
Gene Summary:	This gene encodes a metalloenzyme that catalyzes the last step in the conversion of lysine to the unique amino acid hypusine in eukaryotic initiation factor 5A. The encoded protein hydroxylates deoxyhypusine to form hypusine in the mature eukaryotic initiation factor 5A protein. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Feb 2009]