

Product datasheet for **RG207490**

ASPHD2 (NM_020437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ASPHD2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207490 representing NM_020437
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCGCTCGAGTGGCTGGTGGCCTGGAGCTGGTCGCTGGATGGCCTGAGGGACTGCATCGCCACCGGCA
TCCAGTCCGTGCGGACTGCGACACCACCGCTGTCATCACTGTGGCCTGCCTCCTGGTCTCTTCGTGTG
GTAAGTATCACGTGGGAGGAGCAGCCCGGCCCTACGTCTCCGTCAACTCCCTCATGCAGGCTGCC
GATGCCAACGGGCTGCAGAATGGCTACGTGTACTGCCAGTCCCCTGAGTGCCTGCGCTGCACCCACAACG
AGGGCCTCAACCAGAAGCTGTACCACAACCTGCAGGAGTACGCCAAGCGCTACTCCTGGTCCGGCATGGG
CCGCATCCACAAGGGCATCCGCGAGCAGGGCCGGTACCTCAACAGCCGGCCCTCCATCCAGAAGCCCGAG
GTCTTCTTCTGCCCCGACCTGCCACACGCCCTATTTCTCCCGGACGCACAGAAACATGATGTGGAAG
TGCTGGAACGGAATTCAGACCATCCTGTGTGAGTTTGAACCCCTCTACAAAGCTTTCTCAAAGTGCAG
CCTCCCGCAAGGATGGAAGTGAACAGCACCCAGCGGGGAGTGGTTCACCTTTTACTTGGTCAATCAG
GGGTTTGTGTTCCAGGAAGTGTAGGAAGTGCACGACGTACCGCTTGCTCGGAAGCCTTCGGACCT
GTATTGGGAACAATGTTTTTGGGAACGCGTGCATCTCTGTGCTGAGCCCTGGGACTGTGATAACGGAGCA
CTATGGACCCACCAACATCCGCATCCGATGCCATTTAGGTCTGAAAACCTCCAAATGGCTGTGAGCTGGT
GTGGGGGAGAGCCCAAGTGTGGGAGAGGGCGCTGCCTTCTCTTTGATGACTCTTCTGCTGCTGCTG
CGTTCCATGAAGTTTACGAGAGGATGGCCACGGGTGGTTTTCATGGTGGATTGTGGCATCCAAACGT
CGCAGCGGCCGAACGGCAGGCTCTTGATTTCATCTTTGCTCCGGGACGA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



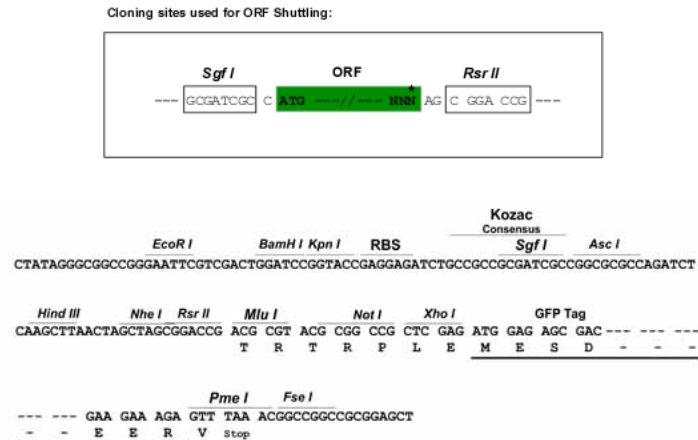
Protein Sequence: >RG207490 representing NM_020437
 Red=Cloning site Green=Tags(s)

MSLEWLVAWSWLDGLRDCIATGIQSVRCDTTAVITVACLLVLFVWYCYHVGREQPRPYVSVNSLMQAA
 DANGLQNGYVYQCQSPECVRCRTHNEGLNQKLYHNLQEYAKRYSWSGMGRIHKGIREQGRYLSRPSIQKPE
 VFFLPDLPTTPYFSRDAQKHDVEVLERNFQTILCEFETLYKAFSNCSLPQGWKMNSTPSGEWFTFYLVNQ
 GVCVPRNCRKCPRTYRLLGSLRTCIGNNVFGNACISVLSPGTVITEHYGPTNIRIRCHLGLKTPNGCELV
 VGGEPQCWAEGRCLLFDDSFLLHAAFHEGSAEDGPRVFMVDLWHPNVAARQALDFIFAPGR

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_020437

ORF Size: 1029 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020437.3](#), [NP_065170.1](#)

RefSeq Size: 1931 bp

RefSeq ORF: 1110 bp

Locus ID: 57168

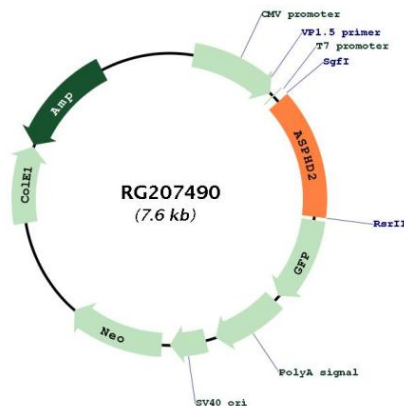
UniProt ID: [Q6ICH7](#)

Cytogenetics: 22q12.1

Domains: Asp_Arg_Hydrox

Gene Summary: May function as 2-oxoglutarate-dependent dioxygenase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207490