

Product datasheet for MR205149

Asphd2 (NM_028386) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asphd2 (NM_028386) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asphd2
Synonyms:	2900006N09Rik; 9230106G13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205149 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTGGAGTGGTTGGTGGCCTGGAGCTGGTCTCTGGATGGCCTGAGGGACTGCATTGCCACCGGTA
TCCAGTCAGTGCGGGACTGCGATGGCACAGCCGTCATCACCGTGGCCTGCCTGCTCATCTGTTTGTGTG
GACTGTACCACGTGGCCGCGAGCAGCCCCGCCCCACGTGTCTGCAACTCCCTCCTGCAGGGCGTG
GATGCCAACGGGCTGCAGAATGGGTCCATGTACTGCCAGTCACCAGAGTGTGCGCGCTGCACACACCACG
AAGGCCTCAACCAGAAGCTCTACCACAACCTGCAGGAATACGCCAAGCGTACTCATGGTCCGGCATGGG
CCGCAATCACAAGGCATCCGGGAGCAGGGCCGCTACCTCAGCAGCCAGCCCTCCATCCAGAAGCCCGAG
GTCTTCTTCTGCCTGACCTCCCACTACGCCCTACTTCTCCCGGGATGCCCAGAAGCAGATGTGGAGC
TGTTGGAGCGGAATCCAGGCGATCCTCTGCGAGTTCGAGACTCTACAAAGCCTTCTCTAACTGCAG
CCTCCCTCAAGGGTGGAAAGTGAACAGCACCCCAAGTGGGGAGTGGTTACCTTTGACTTTGTCAGCCAG
GGCCTTTGTGTCAGGAACTGCAGGAAGTGCAGCGGACTTACCGCTTGTCTCGGACGCTCCGGACCT
GTATTGGAAACAATGTTTTCGGGAACGCCTGCATCTCAGTGTGAGCCCTGGGACTGTGATCACGGAGCA
CTACGGACCCACAACATCCGCATCCGATGCCACCTAGGTTTGAAGACTCCCAATGGCTGCGAGCTGGTG
GTGGGGGCGAGCCCCAGTGTGGCAGAAGCCGATGCTTACTTTGATGACTCGTTCTCTGCACACTG
CGTTCATGAAGGTTCCGCTGAGGATGGCCACGGGTGGTCTTCATGGTAGACTCTGGACCCCAACGT
GGCAGCTGCTGAACGTCAGGCCCTGGATTCATCTTTGCTCCGGGACGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205149 protein sequence
Red=Cloning site Green=Tags(s)

MWLEWLVAWSWLDGLRDCIATGIQSVRDCDGTAVITVACLLILFVWYCYHVGREQPRPHVSVNSLLQGV
DANGLQNGSMYCQSPECARCTHHEGLNQKLYHNLQEYAKRYSWSGMGRIHKGIREQGRYLSSQPSIQKPE
VFFLPDLPTTPYFSRDAQKHDVELLERNFQAILCEFETLYKAFSNCSLPQGWKVNSTPSGEWFTDFVVSQ
GVCVPRNCRKCPRTYRLLGSLRTCIGNNVFGNACISVLSPGTVITEHYGPTNIRIRCHLGLKTPNGCELV
VGGEPCQWAEGRCLLFDSSFLHTAFHEGSAEDGPRVFMVDLWHPNVAAAERQALDFIFAPGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028386

ORF Size: 1032 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_028386.2](#)

RefSeq Size: 1604 bp

RefSeq ORF: 1032 bp

Locus ID: 72898

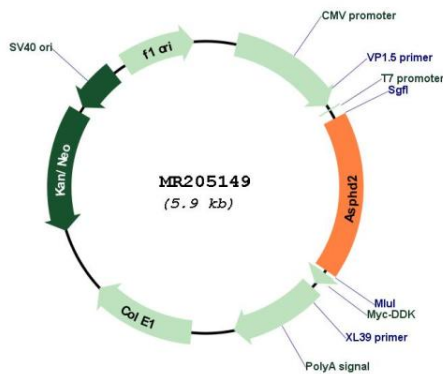
UniProt ID: [Q80VP9](#)

Cytogenetics: 5 F

MW: 38.7 kDa

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

Product images:



Circular map for MR205149