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Product datasheet for MR206749

Ivd (NM_019826) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ivd (NM_019826) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ivd
Synonyms:	1300016K07Rik; 6720455E18Rik; AI463340
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206749 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACTGCAATCCGGCTGCTGGGACGGCGAGTTTCCAGTTGGAGACTGCGGCCATCACCGTCGCCCC
TCGCTGTCCCGCGGCGGGCCCACTCGATATTGCCTGTGGACGATGATATCAACGGGCTAAACGAGGAGCA
GAAGCAGCTTCGTCATACTATATCTAAGTTTCTTCAAGAGAACCTGGCCCCCAAGGCCCAAGAGATTGAT
CAAACCAATGACTTCAAGAACCTGAGAGAGTTCTGGAAACAGCTGGGGAGCCTGGGTGTACTGGGCATCA
CAGCCCCCGTTCAGTATGGTGGCTCTGGCCTGGGCTACCTAGAACATGTGTTGGTAATGGAAGAGATATC
CCGGGCTTCGGGAGCAGTGGGGCTCAGCTACGGTGCTCACTCCAACCTCTGCGTCAACCAGATTGTTCGA
AATGGGAATGAGGCACAGAAAGAGAAATACCTTCCCAAGCTCATCAGTGGTGAGTTCATCGGAGCCTTGG
CCATGAGTGAACCCAATGCTGGCTCTGACGTTGTCTCCATGAAGCTAAAAGCAGAAAAGAAAGGAGATCA
CTATGTTCTGAATGGCAACAAGTTCTGGATCACCAATGGCCCTGATGCTGATATCCTAGTCGTGTATGCC
AAGACAGATTTGACCGCTGTGCCAGCTTCTCGGGGCATCACAGCCTTCATTGTGGAGAAGGGTATGCCTG
GTTTTAGTACCTCCAAGAAGCTTGACAAGCTAGGTATGAGGGGCTCCAACACCTGCGAGCTGGTCTTTGA
AGACTGCAAGGTTCCTGCCGCTAACGTCCTGAGCCAGGAGAGTAAGGGGGTCTACGTATTGATGAGCGGG
CTGGACCTAGAGCGCCTGGTGCTAGCAGGTGGGCCCCTTGGGATCATGCAAGCTGTCCTGGACCACACCA
TTCCCTACTTGCATGTGAGGGAAGCCTTTGGCCAGAAGATCGGCCAATTCCAGCTGATGCAGGGAAAGAT
GGCCGACATGTACACCCGCCTCATGGCAAGTCGACAGTACGTCTACAATGTCGCCAAAGCCTGTGACGAG
GGCCACATCATTCCCAAGGACTGTGCCGGTGTGATTCTGTATGCAGCCGAGTGTGCCACACAGGTAGCCC
TGGACGGCATTCAGTGTCTAGGTGGAAATGGCTACATCAATGACTTCCCCATGGGCCGCTTTCTACGAGA
TGCCAAACTGTATGAGATCGGAGCTGGGACCAGTGAAGTGAGGCGGTTGGTCATTGGCCGAGCTTTCAAT
GCAGACTTCCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

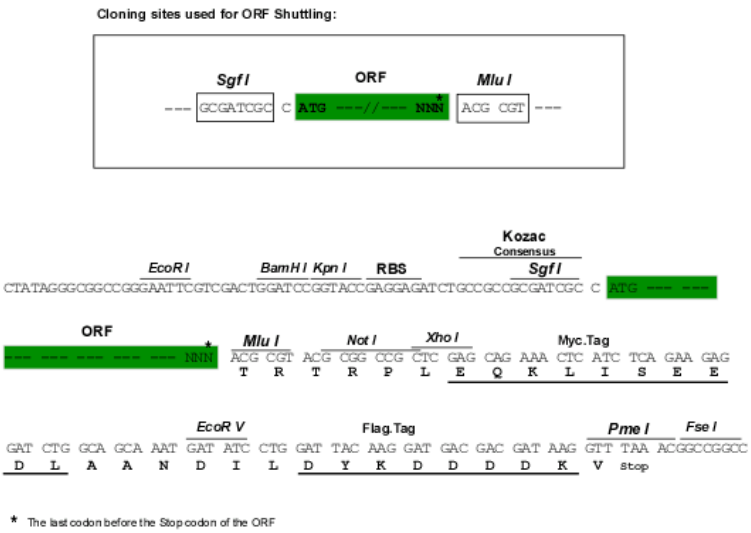
>MR206749 protein sequence
Red=Cloning site Green=Tags(s)

MATAIRLLGRRVSSWRLRPSPSPLAVPRRAHSILPVDDDINGLNEEQKQLRHTISKFLQENLAPKAQEID
QTNDFKNLREFWKQLGSLGVLGITAPVQYGGSGLGYLEHVLVMEEISRASGAVGLSYGAHSNLCVNQIVR
NGNEAQKEKYLPKLISGEFIGALAMSEPNAGSDVVSMKLKAEKKGDHYVLNGNKFWITNGPDADILVVYA
KTDLTAVPASRGITAFIVEKGMPGFSTSKKLDKLGMRGSNTCELVFEDCKVPAANVLSQESKGVYVLMSG
LDLERLVLAGGPLGIMQAVLDHTIPYLHVREAFGQKIGQFQLMQGKMADMYTRLMASRQYVYNVAKACDE
GHIIPKDCAGVILYAAECATQVALDGIQCLGGNGYINDFPMGRFLRDAKLYEIGAGTSEVRRLVIGRAFN
ADFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019826

ORF Size: 1275 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_019826.2

RefSeq Size: 2067 bp

RefSeq ORF: 1275 bp

Locus ID: 56357

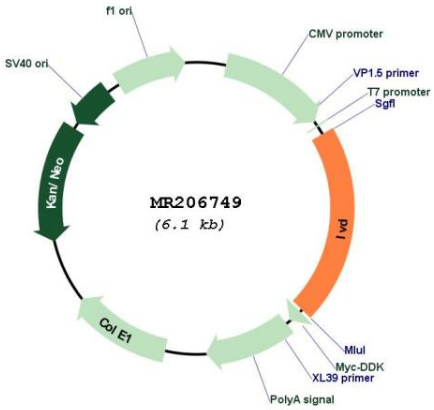
UniProt ID: Q9JHI5

Cytogenetics: 2 E5

MW: 46.3 kDa

Gene Summary: Catalyzes the conversion of isovaleryl-CoA/3-methylbutanoyl-CoA to 3-methylbut-2-enoyl-CoA as an intermediate step in the leucine (Leu) catabolic pathway. To a lesser extent, is also able to catalyze the oxidation of other saturated short-chain acyl-CoA thioesters as pentanoyl-CoA, hexenoyl-CoA and butenoyl-CoA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206749