

Product datasheet for **MG206749**

Ivd (NM_019826) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ivd (NM_019826) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ivd
Synonyms:	1300016K07Rik; 6720455E18Rik; AI463340
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206749 representing NM_019826 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACTGCAATCCGGCTGCTGGGACGGCGAGTTTCCAGTTGGAGACTGCGGCCATCACCGTCGCCCC
TCGCTGTCCCGCGGGGCCCACTCGATATTGCCTGTGGACGATGATATCAACGGGCTAAACGAGGAGCA
GAAGCAGCTTCGTCATACTATACTAAGTTTCTCAAGAGAACCTGGCCCCAAGGCCAAGAGATTGAT
CAAACCAATGACTTCAAGAACCTGAGAGAGTTCTGAAACAGCTGGGAGCCTGGGTGACTGGGCATCA
CAGCCCCGTTTCAAGTATGGTGGCTCTGGCCTGGGCTACCTAGAACATGTGTTGGTAATGGAAGAGATATC
CCGGGCTTCGGGAGCAGTGGGGCTCAGCTACGGTGCTCACTCCAACCTCTGCGTCAACCAGATTGTTTCA
AATGGGAATGAGGCACAGAAAGAGAAATACCTTCCAAGCTCATCAGTGGTGAGTTCATCGGAGCCTTGG
CCATGAGTGAACCAATGCTGGCTCTGACGTTGTCTCCATGAAGCTAAAAGCAGAAAAGAAAGGAGATCA
CTATGTTCTGAATGGCAACAAGTTCTGGATCACCATGGCCCTGATGCTGATATCCTAGTCGTGTATGCC
AAGACAGATTTGACCGCTGTGCCAGCTTCTCGGGCATCACAGCCTTCAATGTGGAGAAGGGTATGCCTG
GTTTTAGTACCTCCAAGAAGCTTGACAAGCTAGGTATGAGGGGCTCCAACACCTGCGAGCTGGTCTTTGA
AGACTGCAAGGTTCTCTGCCGCTAACGTCCTGAGCCAGGAGAGTAAGGGGGTCTACGATTGATGAGCGGG
CTGGACCTAGAGCGCCTGGTGTAGCAGGTGGGCCCTTGGGATCATGCAAGCTGTCCTGGACCACCA
TTCCCTACTTGATGTGAGGGAAGCCTTTGGCCAGAAGATCGGCCAATTCAGCTGATGCAGGGAAGAT
GGCCGACATGTACACCCGCTCATGGCAAGTCGACAGTACGTCTACAATGTGCCAAAGCCTGTGACGAG
GGCCACATCATTCCAAGGACTGTGCCGGTGTGATTCTGTATGCAGCCGAGTGTGCCACACAGGTAGCCC
TGGACGGCATTAGTGTCTAGGTGGAATGGCTACATCAATGACTTCCCCATGGGCCGCTTTCTACGAGA
TGCCAACTGTATGAGATCGGAGCTGGGACCAGTGAAGTGAAGCGGTTGGTCAATGGCCGAGCTTCAAT
GCAGACTCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206749 representing NM_019826
 Red=Cloning site Green=Tags(s)

MATAIRLLGRRVSSWRLRSPSPPLAVPRRAHSILPVDDDDINGLNEEQQLRHTISKFLQENLAPKAQEID
 QTNDFKNLREFWKQLGSLGVLGITAPVQYGGSGLYLEHVLVMEEISRASGAVGLSYGAHNL CVNQIVR
 NGNEAQKEKYL PKLISGEFIGALAMSEPNAGSDVVSMLKKAEEKGDHYVLNGNKFWITNGPDADILVYYA
 KTDLTAVPASRGITAFIVEKMPGFSTSKKLDKLGMRGSNTCEL VFEDCKVPAANVLSQESKGVYVLMSSG
 LDLERLVLAGGPLGIMQAVLDHTIPYLHVREAFGQKIGQFQLMQKMDMYTRLMASRQYVYNVAKACDE
 GHIIPKDCAGVILYAAECATQVALDGIQCLGGNGYINDFPMGRFLRDAKLYEIGAGTSEVRRLLVIGRAFN
 ADFR

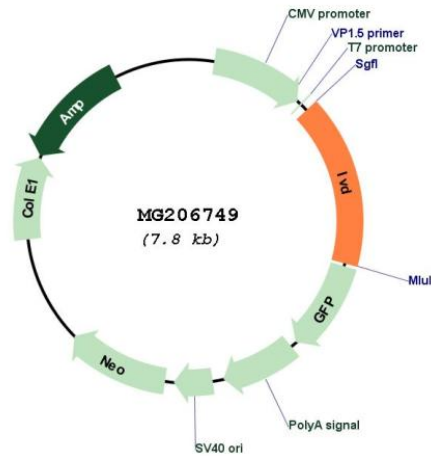
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019826

ORF Size:	1272 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_019826.2
RefSeq Size:	2067 bp
RefSeq ORF:	1275 bp
Locus ID:	56357
UniProt ID:	Q9JHI5
Cytogenetics:	2 E5
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]