

## Product datasheet for **MR209615**

### **Ilvbl (NM\_173751) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ilvbl (NM_173751) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ilvbl
Synonyms:	5830463I21; AI415009
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209615 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAACCTCTGCGGCCGCTGCATCTGCGGGAGGCTTCTCCCTCCTCCTGCTCCTGGCGTTTGGGA  
 CGCTGGTGGCTGCCGTGCTGGGCGTCGCTCACAGACTGGGGCTCTTCTATCAGCTGATGCACAAGGTGGA  
 CAAGACAAGCATCCGGCATGGTGAGAGAGTGTGCGAGCTGTGCTCCGAGCCCATGGTGTACGCTTTGTC  
 TTCACATTGGTCGGTGGGCACATTTCCCACTGCTGGTGGCTGTGAGAAGCTGGGTATCCGAGTGGTAG  
 ACACACGCCACGAGGTCCTGCTGCTTTTCTGCTGATGCTGTGGCCCGCTGACTGGGACAGTGGGTGT  
 GGCAGCAGTGACAGCCGGTCTGGCCTACCAACTGTGACTGCAGTGAAGAATGCACAAGTGGCACAG  
 TCCCCAGTCTGCTTTTGGGTGGAGCTGCCAGCACCTGCTGCAGAAACGGGGCGCACTTACGGCCATTG  
 ATCAGATGCTCTGTTTCCAGCCACTCTGCAAGTTTGTGCTTCTGTGCGAAGGTACGGGACATTGTACC  
 TACCCTGAGGACTGCAATAGCTGCTGCCAGTCAGGCACCCAGGTCCAGTGTGGTGGAGCTGCCTCTT  
 GATGTACTATATCCTTACTTCATGGTTGAGAAGGAGATGATACCAACCAAGTTGCCAATAGCCTCATGG  
 GCCGTGTGGTTGTCTGGTATTTACAGAAGTGCCTGGCCAACTCTTTGTTGGGGCTTGGGAACCTCGTCC  
 CGAGGGACCTCTGCCCTTGGATATTTCCCAAGGCATCTCCGAGCAGGTCCAGCGCTGTGTGGAGATCCTG  
 AGCCGGGCAAGAGGCCCTCTGCTGGTACTGGGGAGCCAGGCCCTTGTGCCCCGACCCCTGCCAACAAGC  
 TTAGAGCTGCCGTGGAGACCCCTGGGTGTCCCCTGCTTTCTAGGGGGATGTCTCGGGGGCTGTGGGCCG  
 CAACACCCTCTCCACATCCGGCAGAACCAGCAGCGCTGCTCTGAAGAAAGCAGATGTTGTTGCTCGGCA  
 GGCGCTGTGTGATTTCCGCCCTGTCTTATGGCCGGTCTCAACCGCAAGAGCAGCATCATCATTGTCA  
 ACCGGAACCGGGATGATCTTTGCTCAACTCGGACATCTTCTGGAAGCCTCAGGAGGCTGTGAGGGAGA  
 TGTGGGCTCCTTCATGATAAACTGGTGAAGGCCTTCAGGGCCAGATGTGGTCTTCAGATTGGGCTGAG  
 GAGCTTCGAAAAGCTGACCAGCAGAAGGAGCAGACCTATCGGGATAAGGCTTTAATGCCTGTATTACAGC  
 ACCTGAACCCAGTATGGGTGTTACAGCAGGTGGAGGAACTCTGCCTGACAATGCACTTCTTGTGGTTGA  
 CGGAGGGGACTTTGTGGCCACTGCTGCCTACTTAGTCCAGCCAGAGGGCCTCTGCGCTGGCTCGATCCT  
 GGGGCTTTGGGACTCTGGGAGTTGGCGCAGGTTTGCCTTGGGGCCAAGCTGTGTGAGCCGGAGGCTG  
 AGGTTTGGTGCCTGTTTGGGGATGGAGCCTTTGGCTACAGCCTCATTGAGTTTGACACGTTTCGTGAGACA  
 TAAGGTACCAGTATAGCCTTGGTAGGAAACGATGCAGGTTGGACCCAGATTTCTCGAGAGCAGGTGCC  
 AGGTTGGCAGTATGATGCTGTAGCCTGTAGCCTGGCTTACACTGATTATCACAAGGCAGCCATGGGCTGGGG  
 CCCAGGGATTGACTCTCACGGACAATAAGGATCAAGTGGTCAAGGACTTTCGTGAAGGCCAGCAGCT  
 GTGCCAGGATGGTCATGCAGTTGTGGTCAACATCTGATTGGGAGGACAGACTTCCGAGATGGCTCCATT  
 TCTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209615 protein sequence  
Red=Cloning site Green=Tags(s)

METSAAAASAGGFPSFLLAFGLTVA AVLGV AHR LGLFYQLMHKVDKTSIRHGGESVAAV LRAHGVR FV  
 FTLVGGHISPLL VACEKLGIRVVDTRHEVTAVFAADAVARLTGTVGVAAVTAGPGLTNTVTAVKNAQVAQ  
 SPVLLLGGAASTLLQKRGALQAIDQMSLFRPLCKFCASVRRVRDIVPTLRTAIAAAQSGTGPVVELPL  
 DVL YPYFMVEKEM IPTKLPNSLMGRVVVWYLQNCLANL FVGAWEP RPEGPLPLDIPQAS PQVQRCVEIL  
 SRAKRPLLVLGSQALLPPTPANKLRAAVETLGVPCFLGGMSRGLLGRNHPLHIRQNRSAALKKADV VVLA  
 GAVCDFRLSYGRV LNRKSSIIIVNRNRD LLLNSDIFWK PQEAVQGDVGSFMIKLVEGLQGQMWSSD WAE  
 ELRKADQKQEQT YRDKALMPVLQHLNPVWLQQVEETLPDNALLVVDGGDFVATAAYLVQPRG PLRWLDP  
 GAFGTLGVGAGFALGAKLCQPEAEVWCLFGDGA FGYSLIEFDTFVRHKVPVIALVGN DAGWTQISREQVP  
 RLGSDVACSLAYTDYHKAAMGLGAQGLILSRDNKDQVVKV LREGQQLCQDGHAVV VNILIGRTDFRDGSI  
 SV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173751

**ORF Size:** 1899 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\\_173751.4](#), [NP\\_776112.1](#)

**RefSeq Size:** 2348 bp

**RefSeq ORF:** 1899 bp

**Locus ID:** 216136

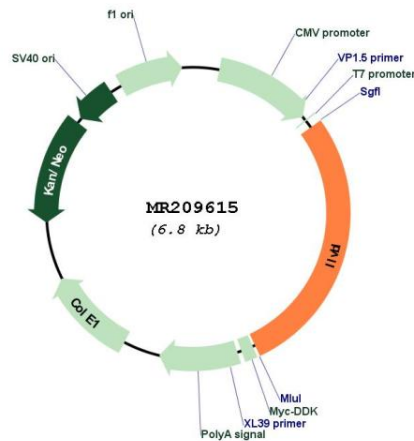
**UniProt ID:** [Q8BU33](#)

**Cytogenetics:** 10 39.72 cM

**MW:** 68.2 kDa

**Gene Summary:** Endoplasmic reticulum 2-OH acyl-CoA lyase involved in the cleavage (C1 removal) reaction in the fatty acid alpha-oxydation in a thiamine pyrophosphate (TPP)-dependent manner. Involved in the phytosphingosine degradation pathway.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR209615