

## Product datasheet for **MG209615**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ilvbl (NM_173751) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ilvbl
Synonyms:	5830463I21; AI415009
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209615 representing NM\_173751  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAACTTCTGCGGCCGCTGCATCTGCGGGAGGCTTCTCCCTCCTTCTGCTCCTGGCGTTTGGGA  
 CGCTGGTGGCTGCCGTGCTGGGCGTCGCTCACAGACTGGGGCTTCTATCAGCTGATGCACAAGGTGGA  
 CAAGACAAGCATCCGGCATGGTGAGAGAGTGTGCGAGCTGTGCTCCGAGCCCATGGTGTACGCTTTGTC  
 TTCACATTGGTCGGTGGGCACATTTCCCACTGCTGGTGGCTGTGAGAAGCTGGGTATCCGAGTGGTAG  
 ACACACGCCACGAGGTCCTGCTGCTTTTCTGCTGATGCTGTGGCCCGCTGACTGGGACAGTGGGTGT  
 GGCAGCAGTGACAGCCGGTCTGGCCTACCAACTGTGACTGCAGTGAAGAATGCACAAGTGGCACAG  
 TCCCCAGTCTGCTTTTGGGTGGAGCTGCCAGCACCTGCTGCAGAAACGGGGCGCACTTCAGGCCATTG  
 ATCAGATGCTCTGTTTCCAGGCCACTCTGCAAGTTTGTGCTTCTGTGCGAAGGACGGGACATTGTACC  
 TACCCTGAGGACTGCAATAGCTGCTGCCAGTCAGGCACCCAGTCCAGTGTGTTGTGGAGCTGCCTCTT  
 GATGTACTATATCCTTACTTCATGGTTGAGAAGGAGATGATACCAACCAAGTTGCCAATAGCCTCATGG  
 GCCGTGTGGTGTCTGGTATTTACAGAAGTGCCTGGCCAACTCTTTGTTGGGGCTTGGGAACCTCGTCC  
 CGAGGGACCTCTGCCCTTGGATATTTCCCAAGGCATCTCCGAGCAGGTCCAGCGCTGTGTGGAGATCCTG  
 AGCCGGGCCAAGAGGCCCTCTGCTGGTACTGGGGAGCCAGGCCCTTGTGCCCCGACCCCTGCCAACAAGC  
 TTAGAGCTGCCGTGGAGACCCCTGGGTGTCCCCTGCTTTCTAGGGGGATGTCTCGGGGCTGTGGGCCG  
 CAACCACCTCTCCACATCCGGCAGAACCAGCAGCGCTGCTCTGAAGAAAGCAGATGTTGTTGCTGGCA  
 GCGCTGTGTGATTTCCGCTGTCTTATGGCCGGTCTCAACCGAAGAGCAGCATCATCATTGTCA  
 ACCGGAACCGGGATGATCTTTGCTCAACTCGGACATCTTCTGGAAGCCTCAGGAGGCTGTGCAGGGAGA  
 TGTGGGCTCCTTCATGATAAAACTGGTGAAGGCCTTCAGGGCCAGATGTGGTCTTCAGATTGGGCTGAG  
 GAGCTTCGGAAAGCTGACCAGCAGAAGGAGCAGACCTATCGGGATAAGGCTTTAATGCCTGTATTACAGC  
 ACCTGAACCCAGTATGGGTGTTACAGCAGGTGGAGGAACTCTGCCTGACAATGCACTTCTTGTGGTTGA  
 CGGAGGGGACTTTGTGGCCACTGCTGCCTACTTAGTCCAGCCAGAGGGCCTCTGCGCTGGCTCGATCCT  
 GGGGCTTTGGGACTCTGGGAGTTGGCGCAGGTTTGCCTTGGGGCCAAGCTGTGTGAGCCGAGGCTG  
 AGGTTTGGTGCCTGTTTGGGGATGGAGCCTTTGGCTACAGCCTCATTGAGTTTACACGTTCTGTCAGACA  
 TAAGGTACCAGTATAGCCTTGGTAGGAAACGATGCAGGTTGGACCCAGATTTCTCGAGAGCAGGTGCC  
 AGGTTGGCAGTATGAGCCTGTAGCCTGGCTTACACTGATTATCACAAGGCAGCCATGGGCTGGGGG  
 CCAGGGATTGACTCTCACGGACAATAAGGATCAAGTGGTCAAGGACTTCTGTGAAGGCCAGCAGCT  
 GTGCCAGGATGGTCATGCAGTTGTGGTCAACATCTGATTGGGAGGACAGACTTCCGAGATGGCTCCATT  
 TCTGTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209615 representing NM\_173751  
 Red=Cloning site Green=Tags(s)

METSAAAASAGGFFPSFLLLAFTLVAAVLGVAHRLGLFYQLMHKVDKTSIRHGGESVAAVLRAGHVRFV  
 FTLVGGHISPLL VACEKLGIRVVDTRHEVTAVFAADAVARLTGTGVAAVTAGPGLTNTVTAVKNAQVAQ  
 SPVLLLGGAASTLLQKRGALQAIDQMSLFRPLCKFCASVRRVRDIVPTLRTAIAAAQSGTPGPVFVELPL  
 DVLYPYFMVEKEMIPTKLPNSLMGRVVVWYLQNCLANL FVGAWEPREPLPLDIPQASPQQVQRCVEIL  
 SRAKRPLLVLGSQALLPPTPANKLRAAVETLGVPCFLGGMSRGLLGRNHPLHIRQNRSAALKKADVVL  
 GAVCDFRLSYGRVLRNKSIIIVNRRDLLLLNSDIFWKPQEAQVQDVGSMIKLVEGLQGMWSSDWA  
 ELRKADQKEQTYRDKALMPVLQHLNPVWVWVQVEETLPDNALLVVDGGDFVATAAYLVQPRGLRWLDP  
 GAFGTLGVGAGFALGAKLCQPEAEVWCLFGDGAFGYSLIEFDTFVRHKVPVIALVGNDAWGTQISREQVP  
 RLGSDVACSLAYTDYHKAAMGLGAQGLILSRDNKDQVVKVLRREGQQLCQDGHAVVNVNIIIGRTDFRDGSI  
 SV

**TRTRPLE** - GFP Tag - V



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_173751.4</a> , <a href="#">NP_776112.1</a>
<b>RefSeq Size:</b>	2348 bp
<b>RefSeq ORF:</b>	1899 bp
<b>Locus ID:</b>	216136
<b>UniProt ID:</b>	<a href="#">Q8BU33</a>
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	Endoplasmic reticulum 2-OH acyl-CoA lyase involved in the cleavage (C1 removal) reaction in the fatty acid alpha-oxidation in a thiamine pyrophosphate (TPP)-dependent manner. Involved in the phytosphingosine degradation pathway.[UniProtKB/Swiss-Prot Function]