

## Product datasheet for **MG213934**

### **Klhl15 (NM\_153165) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Klhl15 (NM\_153165) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Klhl15  
**Synonyms:** 6330500C13Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG213934 representing NM\_153165  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGGGGACGTGGAAGGATTCTGTTCTCCATCCATGACACCAGTGTCTCTGCTGGGTTCCAGAGCAC  
TGTATGAGGAGGGATTGCTTCTCGATGTCACTCTGGTTATTGAAGACCATCAGTTCAGGCCATAAAGC  
TCTTTGGCCACCCAGAGTGATTACTTCAAAATTATGTTACAGCAGACATGAGGGAACGAGATCAGGAC  
AAAATTCATTTGAAAGGTCTAACAGCTACTGGTTTCAGCCACGTTCTTCAGTTTATGTATTATGGAAC  
TAGAACTAAGTATGAACACTGTACATGAAATCCTTCAGGCAGCAATGTATGTTTCAGCTTATAGAAGTGGT  
GAAATTCGCTGCTCCTTTCTCTTAGCCAAAATCTGCTTAGAAAATTGTGCGGAAATTATGAGACTGTTA  
GATGATTTTCGGTGTAAACATCGAGGGAGTCAGGGAGAAGCTGGATGCCTTCTGCTAGACAACTTCGTGC  
CACTAATGTCCAGGCCTGACTTTTTGTCTTATCTGAGCTTCGAGAAGCTCATGTCTTATTTGGATAATGA  
CCATCTGAGCAGGTTTCCAGAAATTGAGCTGTACGAGGCTGTGCAGTCTTGGCTGCGACATGATAGACGA  
CGGTGGAGACACAGATACCATCATTCAAGACATCAGGTTTTGTCTGATGACTCCATCCAGCGTCTTTG  
AGAAGACATCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG213934 representing NM\_153165  
Red=Cloning site Green=Tags(s)

MAGDVEGFCCSIIHDTSVSAGFRALYEEGLLLDVTLVIEDHQFQAHKALLATQSDYFRIMFTADMRRERDQD  
 KIHLLKGLTATGFSHVLQFMYGYTIELSMNTVHEILQAAMYVQLIEVVKFCCSFLAKICLENCAEIMRLL  
 DDFGVNIEGVREKLDNFLDNFVPLMSRPDFLSYLSFEKLSYLDNDHLSRFPEIELYEAVQSWLRHDDR  
 RWRHTDTIIQNIRFCLMTPSSVFEKTS

TRTRPLE - GFP Tag - V

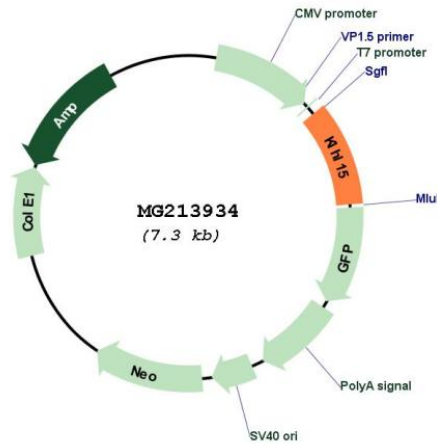
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_153165

**ORF Size:** 711 bp

<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_153165.2</a> , <a href="#">NP_694805.1</a>
<b>RefSeq Size:</b>	3188 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	236904
<b>UniProt ID:</b>	<a href="#">A2AAX3</a>
<b>Cytogenetics:</b>	X C3
<b>Gene Summary:</b>	Substrate-specific adapter for CUL3 E3 ubiquitin-protein ligase complex. Acts as an adapter for CUL3 to target the serine/threonine-protein phosphatase 2A (PP2A) subunit PPP2R5B for ubiquitination and subsequent proteasomal degradation, thus promoting exchange with other regulatory subunits and regulating PP2A holoenzyme composition. Acts as an adapter for CUL3 to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation. Through the regulation of RBBP8/CtIP protein turnover, plays a key role in DNA damage response, favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR).[UniProtKB/Swiss-Prot Function]