

## Product datasheet for **RG232964**

### **KLHL3 (NM\_001257194) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KLHL3 (NM_001257194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLHL3
Synonyms:	PHA2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG232964 representing NM\_001257194  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAAAGCATTCAAGTTATGAATGAAGTACGCGGAGTAAACAGCTGTTGTGTGACGTGATGATTGTGG  
 CAGAAGATGTCGAGATAGAAGCCACCGTGTGGTCTGGCAGCCTGCAGCCCTACTTCTGTGCGATGTT  
 CACAGGTGACATGCTGAGAGTAAAGCCAAAAAGATAGAATCAAGGACGTGGATGGGCAGACGCTGAGT  
 AAGCTGATTGACTACATCTATACTGCTGAAATCGAGGTGACTGAAGAGAATGTCCAGGTGCTGCTCCCGG  
 CAGCCAGCTTGTGCAGCTCATGGATGTTCCGCGAAGTCTGTGACTTCTGCAGTCTCAGTTGCATCC  
 CACCAATTGCCTGGGCATCCGTGCATTTGCAGATGTACACACCTGCACTGACCTTCTGCAGCAGGCCAAT  
 GCCTACGCAGAGCAGCACTTTCCAGAGGTGATGCTAGGAGAAGAATTTCTTAGCCTGAGTCTGGACCAGG  
 TGTGCAGCTTGATATCCAGCGACAAGCTGACCGTTTCTCAGAAGAGAAGGTGTTTGAAGCTGTGATCTC  
 ATGGATCAATTATGAGAAAGAAACCCGTTTAGAGCACATGGCAAAGCTGATGGAACATGTCCGACTTCTC  
 CTCTTACCTAGGGACTACCTAGTCCAAACGGTTGAAGAAGAAGCTTTGATAAAGAATAACAACACCTGTA  
 AAGACTTCTCATTGAGGCCATGAAATACCATCTCCTCCCTCTGGATCAGAGACTATTGATTAAGAACCC  
 AAGGACCAAGCCCAGGACTCCAGTCAAGCTTCCCAAGGTCATGATTGTGGTTGGCGGCCAGGCACCCAAG  
 GCAATCCGCAGTGTGGAGTGCTATGATTTCCAGGAGGACCGGTGGGATCAGATTGCTGAGCTTCTTCCA  
 GAAGATGCAGAGCAGGTGTGGTGTTCATGGCTGGCCACGTGTATGCCGTGGGAGGGTTTAAATGGCTCACT  
 GCGGGTGGGACAGTGGATGTGTATGACGGCGTGAAGGACAGTGGACGTCATTGCCAGCATGCAGGAG  
 CGCCGGAGCACACTGGGCGCAGCGGTCTCAATGACTTGTCTACGCAGTGGGAGGCTTTGATGGCAGTA  
 CTGGCCTAGCATCGTGGAGCCTACAGCTACAAGACCAACGAGTGGTTCTTTGTGGCCCGCATGAACAC  
 CGGGCGGAGCAGTGTGGGTGTGGGCGTTGTGGAGGGGAAGCTATATGCTGTTGGGGTTATGATGGAGCT  
 TCCCGCCAGTGTCTGAGCACTGTGGAGCAGTACAACCCAGCGACCAATGAATGGATATACGTGGCGGACA  
 TGAGCACCCGCCGAGTGGCGCAGGGGTTGGAGTGCTTAGCGGACAGCTGTACGCCACAGGTGGGCATGA  
 TGGGCTTTGGTGGAGGAAGCGTTGAGGTTTACGATCCTGGAACAAATACCTGGAAGCAAGTGGCAGAC  
 ATGAACATGTGCCGGCGCAACGCAGGGGCTGTGCAGTAAATGGGCTCCTGTATGTGGTTGGAGGGGATG  
 ATGGATCTGCAACTTGGCTTCGGTGGAGTACTACAATCCTGTCACTGACAAATGGACGCTGCTTCCAAC  
 GAACATGAGCACGGGGCGGAGCTATGCAGGTGTTGCCGTATTACAAGTCTTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG232964 representing NM\_001257194  
 Red=Cloning site Green=Tags(s)

MGKAFKVMNELRSKQLLCDVMIVAEDVEIEAHRVLAACSPYFCAMFTGDMSESKAKKIEIKDVGQTL  
 KLIDYIYTAEIEVTEENVQVLLPAASLLQLMDVRQNCDFLQSQLHPTNCLGIRAFADVHTCTDLLQGAN  
 AYAEQHFPEVMLGEEFLSLSLDQVCSLISSDKLTYSSEEKVFVAIVSWINYEKETRLEHMAKLMHVRLP  
 LLPRDYL VQTVVEEALIKNNNTCKDFLIEAMKYHLLPLDQRLLIKPNRTPKPRTPVSLPKVMI VVGGQAPK  
 AIRSVECYDFEEDRDQIAELPSRRCRAGVVFMAHVVAVGGFNGSLRVRTVDVYDGVKDWTSIASMQE  
 RRSTLGAAVLNDLLYAVGGFDGSTGLASVEAYSYKTNEWFFVAPMNRSSVGVGVVEGKLYAVGGYDGA  
 SRQCLSTVEQYNPATNEWIYVADMSTRSGAGVGLSGQLYATGGHDGPLVRKSVEVYDPGTNTWKQVAD  
 MNMCRNAGVCAVNGLLYVVGDDGSCNLSVEYYNPVTDKWTLLPTNMSTGRSYAGVAVIHKSL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

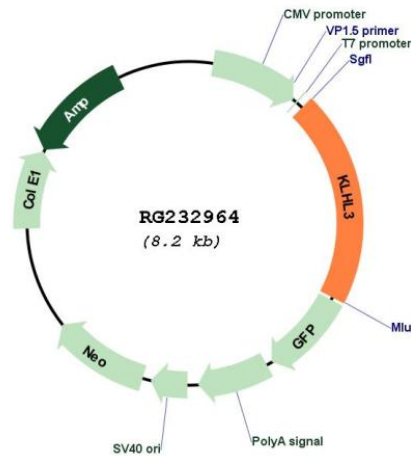
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001257194
<b>ORF Size:</b>	1665 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_001257194.1</a> , <a href="#">NP_001244123.1</a>
<b>RefSeq Size:</b>	6981 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	26249
<b>UniProt ID:</b>	<a href="#">Q9UH77</a>
<b>Cytogenetics:</b>	5q31.2
<b>Gene Summary:</b>	<p>This gene is ubiquitously expressed and encodes a full-length protein which has an N-terminal BTB domain followed by a BACK domain and six kelch-like repeats in the C-terminus. These kelch-like repeats promote substrate ubiquitination of bound proteins via interaction of the BTB domain with the CUL3 (cullin 3) component of a cullin-RING E3 ubiquitin ligase (CRL) complex. Mutations in this gene cause pseudohypoadosteronism type IID (PHA2D); a rare Mendelian syndrome featuring hypertension, hyperkalaemia and metabolic acidosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Mar 2012]</p>