

## Product datasheet for **RG202851**

### Hey L (HEYL) (NM\_014571) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hey L (HEYL) (NM_014571) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hey L
Synonyms:	bHLHb33; HESR3; HEY3; HRT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202851 representing NM_014571 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCGACCCAAGGAGCCGAGCGGCTCCGACGGGGAGTCCGACGGACCCATCGACGTGGGCCAAGAGG  
GCCAGCTGAGCCAGATGGCCAGGCCGTGTCCACCCCGAGCTCTTCGAGATGCAAGCCAGGAAGAAACG  
CAGAGGGATCATAGAGAAACGGCGTCGAGACCGCATCAACAGTAGCCTTTCTGAATTGCGACGTTGGTC  
CCCCTGCCTTTGAGAAACAGGGCTCTTCCAAGCTGGAGAAAGCCGAGGCTTGCAGATGACGGTGGATC  
ACTTGAAATGCTCCATGCCACTGGTGGACAGGATTCTTTGATGCCCGAGCCCTGGCAGTTGACTCCG  
GAGCATTGGTTTTCGGGAGTGCCTCACTGAGGTACATCAGGTACCTGGGGTCTTGAAGGCCCAGCAGC  
CGTGACAGACCCCGTCCGATTCCGCTTCTCTCCACCTCAACAGCTACGACGCGGAGATGGAGCCTTCGC  
CCACGCCCACTGGCCCTTTGGCCTTCCCTGCCTGGCCCTGGTCTTTCTTCCATAGCTGTCCAGGGTGC  
AGCCCTGAGCAACCAGCTCGCCATCCTGGGAAGAGTGCCAGCCCTGTCTCCCCGGTGTCTCTCTCTCT  
GTTACCCCATCCCAGCCCTCCGAACCGCTCCCCTTCGCAGAGCCACAGGCATCATCCTGCCAGCCCGGA  
GGAATGTGCTGCCAGTCGAGGGGCATCTTCCACCCGGAGGGCCCGCCCTAGAGAGGCCAGCGACCCC  
TGTGCTGTGCCCCCAGCAGAGGGCTGCCAGGAGCAGCCACATCGCTCCCTCCTGCAGTCTTCTCTCC  
CCAACACCCCTGGTCTACAGGGTCGGTGTACGTGGTGTTCACCCCACTCATCTCCCCAG  
GGCCAGCTGGGAGGCCAGCGGGAGCCATGCTCTACCACTCCTGGTCTCTGAAATCACTGAAATCGGGC  
TTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202851 representing NM\_014571  
Red=Cloning site Green=Tags(s)

```
MKRPKEPSGSDGESDGPIDVGQEGQLSQMARPLSTPSSSQMQRKRRGIEKRRRDRINSSLSELRRLV
PTAFEKQGSKLEKAEVLQMTVDHLKMLHATGGTGFFDARALAVDFRSIGFRECLTEVIRYLVLEGPSS
RADPVIRIRLLSHLNSYAAEMEPSPTPTGPLAFPWPWSFFHSCPGLPALSNQLAILGRVPSVPLPGVSSP
AYPIPALRTAPLRRATGIILPARRNVLPSRGASSTRRARPLERPATVPVPVAPSSRAARSSHIAPLLQSSS
PTPPGPTGSAAYVAVPTPNSSSPGAGRPAGAMLYHSWVSEITEIGAF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014571

**ORF Size:** 984 bp

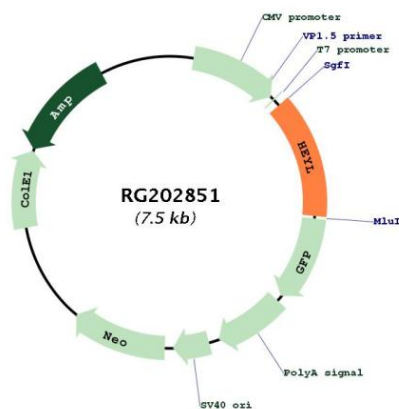
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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_014571.3</a>
<b>RefSeq Size:</b>	3416 bp
<b>RefSeq ORF:</b>	987 bp
<b>Locus ID:</b>	26508
<b>UniProt ID:</b>	<a href="#">Q9NQ87</a>
<b>Cytogenetics:</b>	1p34.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	This gene encodes a member of the hairy and enhancer of split-related (HESR) family of basic helix-loop-helix (bHLH)-type transcription factors. The sequence of the encoded protein contains a conserved bHLH and orange domain, but its YRPW motif has diverged from other HESR family members. It is thought to be an effector of Notch signaling and a regulator of cell fate decisions. Alternatively spliced transcript variants have been found, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG202851