

## Product datasheet for **RG200116**

### KLHDC2 (NM\_014315) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KLHDC2 (NM_014315) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KLHDC2
Synonyms:	HCLP-1; HCLP1; LCP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200116 representing NM_014315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGATGGCAACGAGGATCTGCGGGCTGACGACTTGCTGGCCAGCCTTCGAGAGCTATGAGTCCA  
TGGAGCTTGCCCGCTGAGCGCAGCGGCCACGTAGCCGTACGCGACGGCGCCACATGTTTCGTCTG  
GGGCGGCTACAAGAGTAATCAAGTCAGAGGATTATGACTTTTATCGCTAGAGAAGAACTATGGATC  
TACAACATGGAGACTGGAAGATGAAAAAATCAACACTGAAGGTGATGTTCTCCTTCTATGTCAGGAA  
GCTGTGCTGTGTGTAGACAGGTGCTGACTTGTGGAGGACACCATTCAAGAGGCAATACCAATAA  
GTTCTACATGCTGGATCAAGGTCTACAGACAGAGTGTTACAGTGGGAAAGAATTGATTGCCAAGGAATT  
CCTCCATCATCAAAGGACAACTTGGTGTCTGGGTATATAAAAAAAGTTAATATTTTTGGAGGGTATG  
GATATTTGCTGAAGATAAAGTATTGGAACTTTTGAATTCGATGAAACATCTTTTTGGAATTCAAGTCA  
TCCAAGAGGATGGAATGATCATGTACATATTTTAGACTGAAACATTTACCTGGAGCCAGCCTATAACT  
ACTGGTAAAGCACCTTACCTCGTGTGCCATGCCTGTGCAACTGTGGAAATAGAGGCTTCGTGTTT  
GAGGCAGATATCGAGATGCTAGAATGAATGATCTTCACTATCTTAATCTGGATACATGGGAGTGAATGA  
ATTAATCCACAAGGCATATGCCAGTTGGTCGATCTTGGCACTACTAACACCAGTTTCTCAGATCAT  
CTTTTTCTTTGGAGGATTTACCACTGATAAACAGCCACTAAGTGATGCCTGGACTTACTGCATCAGTA  
AAAATGAATGGATACAATTTAATCATCCATATACCGAAAAACCAAGTTATGGCACACAGCTTGTGCCAG  
CGATGAAGGAGAAGTAATTGTTTTGGTGGATGTGCCAACAACTTGTCTTGCATCACAGAGCTGCACAC  
AGTAATGAAATACTAATATTTTCAGTTCAACAAAATCTTGTACGGCTAAGCTTAGAAGCAGTCATTT  
GCTTTAAAGAAATGTTAGCCAACCTATGGAAGTGCCTTCCAAAACACTTACTTCACAGTGTAAATCAGAG  
GTTTGGTAGTAACAACACTTCTGGATCT

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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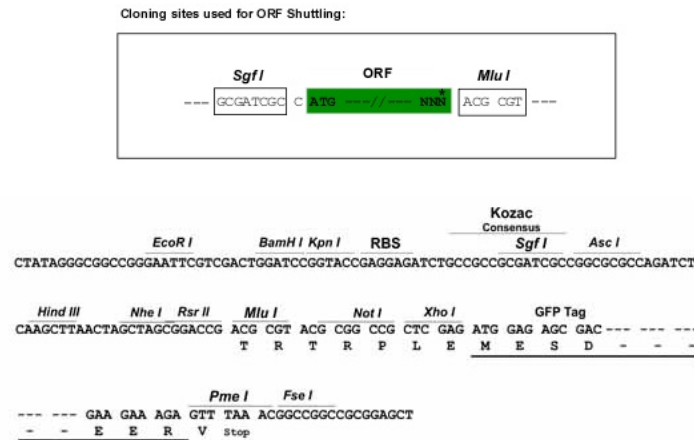
**Protein Sequence:** >RG200116 representing NM\_014315  
 Red=Cloning site Green=Tags(s)

MADGNEDLRADDLPGPAFESYESMELACPAERSGHVAVSDGRHMFVWGGYKSNQVRGLYDFYLPREELWI  
 YNMETGRWKKINTEGDVPPSMSGSCAVCVDRVLYLFGGHHSRGNTNKFYMLDSRSTDRVLQWERIDCQGI  
 PPSSKDKLGVVWYKKNLIFFGGYGLPEDKVLGTFEFDTSFWNSSHPRGWNDHVHILDTEFTTWSQPIT  
 TGKAPSPRAAHACATVGNRGFVFGGYRDARMNDLHYLNLDTEWNEELIPQGICPVGRSWHSLTPVSSDH  
 LFLFGGFTTDKQPLSDAWTYCISKNEWIQFNHPYTEKPRLWHTACASDEGEVIVFGGCANNLLVHHRAAH  
 SNEILIFSVQPKSLVRLSLEAVICFKEMLANSWNCLPKHLLHSVNQRFGSNNTSGS

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014315

**ORF Size:** 1218 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\\_014315.3](#)

**RefSeq Size:** 1808 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 23588

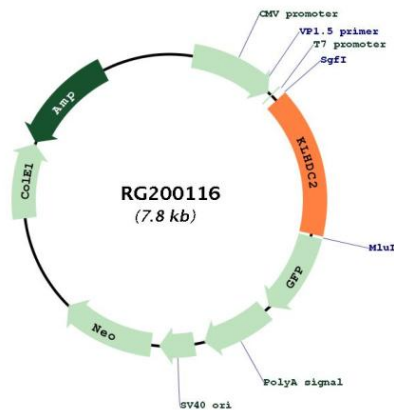
**UniProt ID:** [Q9Y2U9](#)

**Cytogenetics:** 14q21.3

**Domains:** Kelch

**Gene Summary:** Represses CREB3-mediated transcription by interfering with CREB3-DNA binding. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG200116