

## Product datasheet for **RG213131**

### **KCHIP2 (KCNIP2) (NM\_014591) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCHIP2 (KCNIP2) (NM\_014591) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KCHIP2  
**Synonyms:** KCHIP2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG213131 representing NM\_014591  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGGGGCCAGGGCCGCAAGGAGAGTTTGTCCGATTCCCAGACCTGGACGGCTCCTACGACCAGCTCA  
 CGGGCCACCTCCAGGGCCCACTAAAAAGCGCTGAAGCAGCGATTCTCAAGCTGCTGCCGTGCTGCGG  
 GCCCAAGCCCTGCCCTCAGTCAGTGAATTGGCCGGTCTTCCGCTTCTCGGTGACAGTTCGCTCCCT  
 TCAGCATTAGCCGCCCCAGCCTCCCTCCGCCCCACAGACCCCGCTGCTGGACCCAGACAGCGTGGACG  
 ATGAATTTGAATTGTCCACCGTGTGTACCAGCGCTGAGGGTCTGGAGCAGCTGCAGGAGCAAACCAATT  
 CACGCGCAAGGAGTTGCAGGTCCTGTACCGGGCTTCAAGAACGAATGTCCCAGCGGAATTGTCAATGAG  
 GAGAACTCAAGCAGATTTACTCCAGTCTTTTCTCAAGGAGACTCCAGCACCTATGCCACTTTTCTCT  
 TCAATGCCTTTGACACCAACCATGATGGCTCGGTGAGTTTGGAGACTTTGTGGCTGGTTTGTCCGTGAT  
 TCTTCGGGGAAGTGTAGATGACAGGCTTAATTGGGCTTCAACCTGTATGACCTTAACAAGGACGGCTGC  
 ATCACCAAGGAGGAAATGCTTGACATCATGAAGTCCATCATGACATGATGGCAAGTACACGTACCCTG  
 CACTCCGGGAGGAGGCCCAAGGGAACACGTGGAGAGCTTCTCCAGAAGATGGACAGAAACAAGGATGG  
 TGTGGTGACCATTGAGGAATTCATTGAGTCTTGTCAAAGGATGAGAACATCATGAGGTCCATGCAGCTC  
 TTTGACAATGTCATC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213131 representing NM\_014591  
Red=Cloning site Green=Tags(s)

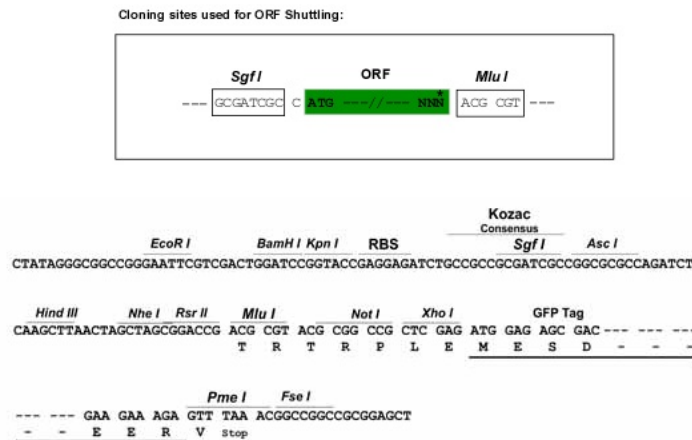
MRGQGRKESLSDSRDLGSDYDQLTGHPGPTKKALKQRFLKLLPCCGPQALPSVSEIGRVFRFLGDSSLP  
 SALAAPASLRPHRPRLDPDSVDFEFELSTVCHRPEGLEQLQEQTFRKELQVLYRGFKNECPGIVNE  
 ENFKQIYSQFFPQGDSSYATFLFNADFTHDGSVSFEDFVAGLSVILRGTVDDRLNWFNLYDLNKGDC  
 ITKEEMLDIMKSIYDMMGKYTPALREEAPREHVESFFQKMDRNDKGVVTIEEFIESCQKDENIMRSMQL  
 FDNVI

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2066\\_a09.zip](https://cdn.origene.com/chromatograms/ja2066_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014591

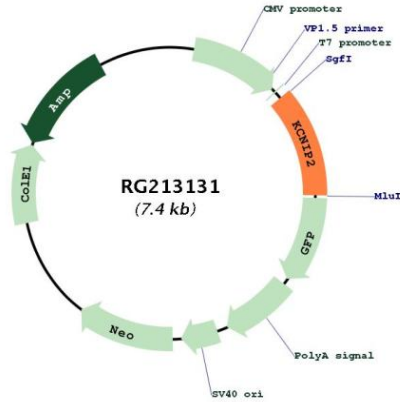
**ORF Size:** 855 bp

**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](#)

<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_014591.5</a>
<b>RefSeq Size:</b>	2608 bp
<b>RefSeq ORF:</b>	858 bp
<b>Locus ID:</b>	30819
<b>UniProt ID:</b>	<a href="#">Q9NS61</a>
<b>Cytogenetics:</b>	10q24.32
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>Gene Summary:</b>	<p>This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG213131