

## Product datasheet for **RG212601**

### **KCHIP2 (KCNIP2) (NM\_173194) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCHIP2 (KCNIP2) (NM_173194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNIP2
Synonyms:	KCHIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212601 representing NM_173194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCGATGCCCCGAGGTGCCGGAGCCCGCTGGGGCAGGCAGCGGATCCCTCTACCAGCTGGTGA  
CTGGGTCGCTGTCCCAGACAGCGTGGACGATGAATTTGAATTGTCCACCGTGTGCACCGGCTGAGGG  
TCTGGAGCAGCTGCAGGAGCAAACAAATTCACGCGCAAGGAGTTGCAGGTCCTGTACCGGGCTTCAAG  
AACGAATGTCCCAGCGGAATTGTCAATGAGGAGAATTCAAGCAGATTTACTCCCAGTTCTTTCTCAAG  
GAGACTCCAGCACCTATGCCACTTTTCTTCAATGCCTTTGACACCAACCATGATGGCTCGGTCAGTTT  
TGAGGACTTTGTGGCTGTTTGTCCGTGATTCCTCGGGAACTGTAGATGACAGGCTTAATTGGGCCTTC  
AACCTGTATGACCTTAACAAGGACGGCTGCATCACAAGGAGGAAATGCTTGACATCATGAAGTCCATCT  
ATGACATGATGGCAAGTACACGTACCCTGCACTCCGGGAGGAGGCCCAAGGGAACACGTGGAGAGCTT  
CTTCCAGAAGATGGACAGAAACAAGGATGGTGTGGTGACCATTGAGGAATTCATTGAGTCTTGTCAAAG  
GATGAGAACATCATGAGGTCCATGCAGCTTTTGACAATGTCATC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212601 representing NM\_173194  
Red=Cloning site Green=Tags(s)

MNRCPRRCRSPLGQAARSLYQLVTGSLSPDSVDDEFELSTVCHRPEGLEQLQEQTkFTRKELQVL YRGFK  
 NECPSGI VNEENFKQIYSQFFPQGDSSTYATFLFNAFDTNHDGSVSFEDFVAGLSVILRGTVDDRLN WAF  
 NLYDLNKDGCITKEEMLDIMKSIYDMMGKYTPALREEAPREHVESFFQKMDRNDKGVVTIEEFIESCQK  
 DENIMRSMQLFDNVI

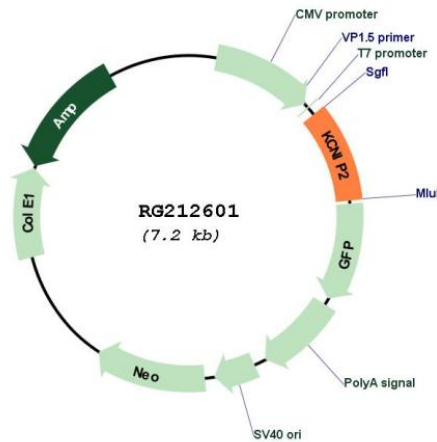
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_173194

**ORF Size:** 675 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_173194.3</a>
<b>RefSeq Size:</b>	2090 bp
<b>RefSeq ORF:</b>	678 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>	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]