

## Product datasheet for **RG238533**

### **KCNS3 (NM\_001282428) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KCNS3 (NM_001282428) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNS3
Synonyms:	KV9.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238533 representing NM\_001282428.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTGTGGTGGAGTTTTCCATCGCCCTGGACAAGACGAGGAAGTGTCAACCTGAATGTGGGGGGC
TTTAAGCAGTATGTTGACCAAAGCACCCCTCTCGGGTTTCTCACACCAGACTGGGAAGCTGCTTACT
TGCCATTCTGAAGAGGCCATTCTGGAGCTGTGTGATGATTACAGTGTGGCGGATAAGGAATACTACTTT
GATCGGAATCCCTCCTTGTTCAGATATGTTTTGAATTTTATTACACGGGGAAGCTGCATGTCATGGAG
GAGCTGTGCGTATTCTCATTCTGCCAGGAGATCGAGTACTGGGGCATCAACGAGCTTCTCATTGATTCT
TGCTGCAGCAATCGTACCAGGAACGCAAGGAGGAAAACCACGAGAAGGACTGGGACCAGAAAAGCCAT
GATGTGAGTACCGACTCCTCGTTGAAGAGTCGTCTCTGTTTGAGAAAGAGCTGGAGAAGTTTGACACA
CTGCGATTGGTCAGCTCCGGAAGAAAATCTGGATTAGAATGGAGAATCCAGCGTACTGCCTGTCCGCT
AAGCTTATCGCTATCTCCTCCTTGAGCGTGGTGTGCCCTCCATCGTGGCCATGTGCGTTCACAGCATG
TCGGAGTTCAGAAATGAGGATGGAGAAGTGGATGATCCGGTGTGGAAGGAGTGGAGATCGCGTGCATT
GCCTGGTTCACCGGGGAGCTTGGCGTCCGGCTGGCTGCCGCTCCTTGCAAAAAGAAATTCGGAAAAAC
CCTCTGAACATCATTGACTTTGTCTCTATTATCCCTTCTATGCCACGTTGGCTGTAGACACCAAGGAG
GAAGAGAGTGAGGATATTGAGAATCGGCAAGGTGGTCCAGATCCTACGGCTTATGAGGATTTCCGA
ATTCTAAAGCTTGCCTCGACTCGGTAGGACTTCGGTCTCTAGGTGCCACACTGAGACACAGCTACCAT
GAAGTTGGGCTTCTGCTTCTCTCTCTGTGGGCATTTCCATTTTCTCTGTGCTTATCTACTCCGTG
GAGAAAGATGACCACACATCCAGCCTCACCAGCATCCCATCTGCTGGTGGTGGGCCACCATCAGCATG
ACAACGTGGGCTATGGAGACACCCACCCGGTCCACCTGGCGGAAAGCTCATCGCCAGCAGATGCATC
ATCTGTGGCATCTTGGTGGTGGCCCTCCCATCACCATCATTTCAACAAGTTTTCCAAAATACTACCAG
AAGCAAAAAGGACATTGATGTGGACAGTGCAGTGCAGGATGCACCCAGAGAAGTGTGCATGAGCTACCTTAC
TTTAACATTAGGGATATATATGCACAGCGGATGCACGCCTTCTATTACCAGTCTCTCTTGTAGGCATT
GTGGTGAAGCATCCTGACTCCACAGATGCTTCAAGCATTGAAGACAATGAGGACATTTGTAACACCACC
TCCTTGGAGAATTGCACAGCAAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238533  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MVFGEFFHRPGQDEELVNLNVGGFKQYVDQSTLLRFPHTRLGKLLTCHSEEAILEL CDDYSVADKEYFF
DRNPSLFRYVLNFYTTGKLVHMEELCVFSFCQIEYWGINELFIDSCSNRYQERKEENHEKDWDQKSH
DVSTDSSFEESLFEKELEKFDLRFGLRKKI WIRMENPAYCLSAKLIATSSLVVLASIVAMCVHSM
SEFQNEDEGEVDDPVLEGEIACIAWFTGELAVRLAAAPCQKKFWKNPLNIDFVSIIPFYATLAVDTKE
EESEDIENMGKVVQILRLMRIFRILKLARHSVGLRSLGATLRHSYHEVGLLLLFLSVGISIFSVLIYSV
EKDDHTSSLTSIPICWWWATISMTTVGYGDTHPVTLAGKLIASTCII CGILVVALPITIIFNKFSKYYQ
KQKDIDVDQCSEDAPEKCHELPYFNIRDIYAQRMHAFITSLSSVGIVVSDPDSTDASSIEDNEDICNTT
SLENCTAK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

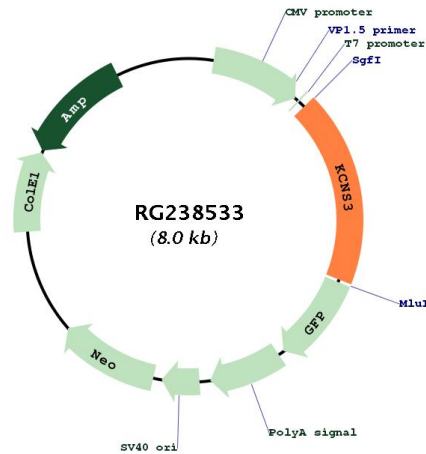
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001282428

**ORF Size:** 1473 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).

**RefSeq:** [NM\\_001282428.1](#), [NP\\_001269357.1](#)

RefSeq Size:	2415 bp
RefSeq ORF:	1476 bp
Locus ID:	3790
UniProt ID:	<a href="#">Q9BQ31</a>
Cytogenetics:	2p24.2
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	56 kDa
Gene Summary:	<p>Voltage-gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells. Their main functions are associated with the regulation of the resting membrane potential and the control of the shape and frequency of action potentials. The alpha subunits are of 2 types: those that are functional by themselves and those that are electrically silent but capable of modulating the activity of specific functional alpha subunits. The protein encoded by this gene is not functional by itself but can form heteromultimers with member 1 and with member 2 (and possibly other members) of the Shab-related subfamily of potassium voltage-gated channel proteins. This gene belongs to the S subfamily of the potassium channel family. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2013]</p>