

## Product datasheet for **RG230617**

### **KIAA0319 (NM\_001168377) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KIAA0319 (NM\_001168377) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** KIAA0319  
**Synonyms:** AAVR; DYLX2; DYX2; NMIG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG230617 representing NM\_001168377  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCGCCCCCACAGGTGTGCTCTCTTCATTGCTGCTGCTGGTGACAATTGCAGGTTGTGCCCGTAAGC  
 AGTGCAGCGAGGGGAGGACATATCCAATGCAGTCATTTACCTAACTGGAAACCACCAGAATCATGCG  
 GGTGTCTCACACCTTCCCTGTCTGAGACTGCACGGCCGCTTGCTGTGACCTGTCCAGCTGTGACCTGGCC  
 TGGTGGTTCGAGGGCCGCTGCTACCTGGTGGAGTGCACCAAGAGAAGTGTGAGCCCAAGAAGATGG  
 GCCCATCAGGTCTTATCTCACTTTTGTGCTCCGGCTGTTGAGAGCCGTCACAGCTGTGGACTATGG  
 GGACATGATGCTGAACAGGGGCTCCCCCTCGGGGATCTGGGGGACTCACCTGAGGATATCAGAAAGGAC  
 TTGACCTTTCTAGGCAAAGATTGGGCTAGAGGAGATGTCTGAGTACTCAGATGACTACCGGGAGCTGG  
 AGAAGGACCTCTTGCAACCCAGTGGCAAGCAGGAGCCAGAGGGAGTGCCGAGTACACGGACTGGGGCT  
 ACTGCCGGGACAGCGAGGGGGCTTCAACTCCTCTGTTGGAGACAGTCTGCGGTGCCAGCGGAGACGCAG  
 CAGGACCTGAGCTCCATTACCTGAATGAGTCGGCTTCAACCCCTGCCCAAACTCCCTGAGAGAAGTG  
 TGTTGCTCCCTTGCCGACTACTCCATCTCAGGAGAGGTGTTGGAGAAAGAAAAGGCTTCTCAGCTCCA  
 GGAACAATCCAGCAACAGCTCTGGAAAAGAGTTCTAATGCCTCCCATAGTCTTCTCCGCAAGCCTG  
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TTGTCTAACCTTGATCCTGGTAACTATAGTTTCAGGTTGACTGTTACAGACTCGGACGGAGCCACTAACT  
 CTAACAAGTGCAGCCCTAATAGTGAACAATGCTGTGGACTACCCACCAGTTGCTAATGCAGGACCAATCA  
 CACCATAACTTTGCCCAAACTCCATCACTTTGAATGGAACCAGAGCAGTGACGATCACCAGATTGTC  
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 GCACCGTGATTGTGTTTTATGTACAGAGCAGGCCGCTTTCAAGGTTCTCAAAGTGTCTGAAGTGGCCCG  
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 AAGCACAGAGCACAACCTCAGCCTGATGGTATCCGAGTCTGAGTTTGACAGTACCAGGACACAATCTTC  
 AGCCGAGAAAAGATGGAGAGAGGGAATCCAAAGGTTTCCATGAATGGTTCATCAGAAATGGAGCTTCT  
 TCAGTTATTGCTCAAAGGACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230617 representing NM\_001168377  
 Red=Cloning site Green=Tags(s)

MAPPTGVLSSLLLLVTIAGCARKQCSEGRYTSNAVISPNETTRIMRVSHTFPVVDCTAACCDLSSCDLA  
 WWFEGRCYLVSCPHKENCEPKMGPIRSYLTFLRPVQRPALLDYGDMLNRRGSPSGIWDSPEDIRKD  
 LTFLGKDWGLEEMSEYSDDYRELEKDLLQPSGKQEPGRSAEYTDWGLLPGSEGFNSSVGDSPAVPAETQ  
 QDPELHYLNESASTPAPKLPERSVLLPLPTTPSSGEVLEKEKASQLQEQQSSNSGKEVLMPSHSLPPASL  
 ELSSVTVEKSPVLTVPSTGSTEHSIPTPPTSAAPSESTPSELPISTTAPRTVKELTVSAGDNLIIITLDPN  
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 NVTVKPARRVNLPPVAVVSPQLQELTLPLTSALIDGSQSTDDTEIVSYHWEEINGPFIEEKTSVDSPLVR  
 LSNLDPGNYSFRLTVTDSGATNSTAALIVNNAVYPPVANAGPNHITLTPQNSITLNGNQSSDDHQIV  
 LYEWSLGPGSEGHVVMQGVQTPYLHL SAMQEGDYTFQLKVT DSSRQQSTAVVTIVIQPENRPPVAVAG  
 PDKELIFPVESATLDGSSSSDDHGIVFYHWEHVRGSAVEMENIDKAIATVTGLQVGTYHFRLTVKDQQG  
 LSSTSTLTVAVKKENNSPPRARAGGRHVLVLPNNSITLDGSRSTDDQRIVSYLWIRDGQSPAAGDVIDGS  
 DHSVALQLTNLVEGVYTFHLRVTDSDGASD TDTATVEVQPDPRKSGLVELTLQVGVGQLTEQRKDTLVRQ  
 LAVLLNVLDSDIKVQKIRAHSDLSTVIVFYVQSRPPFKVLKAAEVARNLHMRLSKEKADFLFKVLRVDT  
 AGCLLKCSGHGHCDPLTKRCICSHLWMENLIQRYIWDGESNCGIKHRSTEHNSSLMVSESEFDSDQDTIF  
 SREKMERGNPKVSMNGSIRNGASFYSCKDR

TRTRPLE - GFP Tag - V

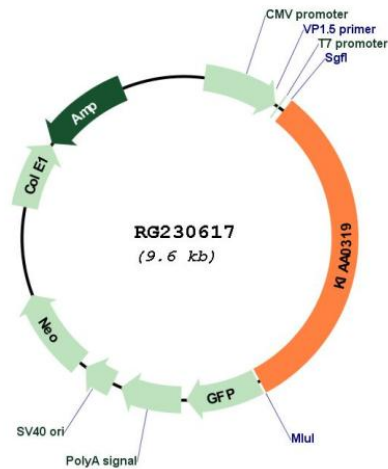
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001168377

ORF Size: 3033 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](#)

<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>	<u>NM_001168377.1, NP_001161849.1</u>
<b>RefSeq Size:</b>	6622 bp
<b>RefSeq ORF:</b>	3036 bp
<b>Locus ID:</b>	9856
<b>UniProt ID:</b>	<u>Q5VV43</u>
<b>Cytogenetics:</b>	6p22.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	This gene encodes a transmembrane protein that contains a large extracellular domain with multiple polycystic kidney disease (PKD) domains. The encoded protein may play a role in the development of the cerebral cortex by regulating neuronal migration and cell adhesion. Single nucleotide polymorphisms in this gene are associated with dyslexia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]