

## Product datasheet for **RC230617**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KIAA0319 (NM\_001168377) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** KIAA0319  
**Synonyms:** AAVR; DYX2; NMIG  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC230617 representing NM\_001168377  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCCCCCAGGTTGTCTCTTTCATTGCTGCTGCTGGTACAATTGCAGTTGTGCCGTAAGC  
AGTGCAGCGAGGGGAGGACATATCCAATGCAGTCATTTACCTAACTTGGAAACCACAGAATCATGCG  
GGTGTCTCACACCTTCCCTGTCGTAGACTGCACGGCCGCTTGCTGTGACCTGTCCAGCTGTGACCTGGCC  
TGGTGGTTCGAGGGCCGCTGCTACCTGGTGAAGTGCACCAAGAGAACTGTGAGCCAAAGAAGATGG  
GCCCCATCAGGCTTATCTCACTTTTGTCTCCGGCCTGTTAGAGGCTGCACAGCTGTGGACTATGG  
GGACATGATGCTGAACAGGGGCTCCCCCTCGGGGATCTGGGGGACTCACCTGAGGATATCAGAAAGGAC  
TTGACCTTTCTAGGCAAAGATTGGGGCTAGAGGAGATGTCTGAGTACTCAGATGACTACCGGGAGCTGG  
AGAAGGACCTCTTGCAACCCAGTGGCAAGCAGGAGCCAGAGGGAGTCCGAGTACACGGACTGGGGCT  
ACTGCCGGCAGCGAGGGGGCTTCAACTCCTCTGTTGGAGACAGTCTGCGGTGCCAGCGGAGACGCAG  
CAGGACCCTGAGCTCCATTACCTGAATGAGTCGGCTTCAACCCCTGCCCCAAAACCTCCCTGAGAGAAGTG  
TGTTGCTCCCTTGGCGACTACTCCATCTCAGGAGAGGTGTTGGAGAAAGAAAGGCTTCTCAGTCCA  
GGAACAATCCAGCAACAGCTCTGAAAAGAGTTCTAATGCCTTCCCATAGTCTTCTCCGGCAAGCCTG  
GAGCTCAGCTCAGTCACCGTGGAGAAAAGCCAGTGTCTCACAGTACCCCGGGGAGTACAGAGCACAGCA  
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TGCTCCCAGGACAGTGAAGAAGTACGGTATCGGCTGGAGATAACCTAATTATAACTTTACCCGACAAT  
GAAGTTGAACTGAAGGCCTTTGTTGCGCCAGCGCCACCTGTAGAAAACCTACAACCTATGAATGGAATT  
TAATAAGCCACCCACAGACTACCAAGGTGAAATAAAACAAGGACACAAGCAAACCTTAACCTCTCTCA  
ATTGTCGGTCCGACTTTATGCTTCAAAGTCACTGTTTCTAGTAAAACGCCTTTGGAGAAGGATTTGTC  
AATGTCAGTGTAAAGCCTGCCAGAAGAGTCAACCTGCCACCTGTAGCAGTTGTTTCTCCCAACTGCAAG  
AGTCACTTTGCCTTTGACGTACGCCCTATTGATGGCAGCCAAAGTACAGATGATACTGAAATAGTGAG  
TTATCATTGGGAAGAAATAAACGGGCCCTTCATAGAAGAGAAGACTTCAGTTGACTCTCCCGTCTTACGC  
TTGTCTAACCTTGATCCTGGTAACTATAGTTTCAGGTTGACTGTTACAGACTCGGACGGAGCCACTAACT



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CTACAACCTGCAGCCCTAATAGTGAACAATGCTGTGGACTACCCACCAGTTGCTAATGCAGGACCAAATCA  
 CACCATAACTTTGCCCAAACTCCATCACTTTGAATGGAACCAGAGCAGTGACGATCACCAGATTGTC  
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 ACCTTCATTTATCTGCAATGCAGGAAGGAGATTACATTTACAGTGAAGGTGACAGATTCTTCAAGGCA  
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 GCAGGTTGCCCTTGAAGTGTCTGGCCATGGTCACTGCGACCCCTCACAAAGCGCTGCATTTGCTCTC  
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 AGCCGAGAAAAGATGGAGAGAGGGAATCCAAAGGTTTCCATGAATGGTCCATCAGAAATGGAGCTTCT  
 TCAGTTATTGCTCAAAGGACAGA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230617 representing NM\_001168377  
 Red=Cloning site Green=Tags(s)

MAPPTGVLSSLLLLVTIAGCARKQCSEGRYTSNAVISPNETTRIMRVSHTFPVVDCTAACCDLSSCDLA  
 WWFEGRCYLVSCPHKENCEPKMGPIRSYLTFLRPVQRPALLDYGDMLNRRGSPSGIWDSPEDIRKD  
 LTFLGKDWGLEEMSEYSDDYRELEKDLLQPSGKQEPGRGSAEYTDWGLLPGSEGFNSSVGDSPAVPAETQ  
 QDPELHYLNESASTPAPKLPERSVLLPLPTTPSSGEVLEKEKASQLQEQQSSNSGKEVLMPSHSLPPASL  
 ELSSVTVEKSPVLTVPSTGSTEHSIPTPPTSAAPSESTPSELPISTTAPRTVKELTVSAGDNLIIITLDPN  
 EVELKAFVAPAPPVETTYNYEWNLSHPTDYQGEIKQGHKQTLNLSQLSVGLYVFKVTVSSENAFGEFV  
 NVTVKPARRVNLPPVAVVSPQLQELTLPLTSALIDGSQSTDDTEIVSYHWEEINGPFIEEKTSDVSPVLR  
 LSNLDPGNYSFRLTVTDSGATNSTAALIVNNAVDYPPVANAGPNHTITLPQNSITLNGNQSSDDHQIV  
 LYEWSLGPGSEGHVVMQGVQTPYLHLSAMQEGDYTFQLKVTDSSRQQSTAVVTIVIQPENRRPPVAVAG  
 PDKELIFPVESATLDGSSSSDDHGIVFYHWEHVRGPSAVEMENIDKAIATVTGLQVGTYHFRLTVKDQQG  
 LSSTSTLTVAVKKENNSPPRARAGGRHVLVLPNNSITLDGSRSTDDQRIVSYLWIRDGQSPAAGDVIDGS  
 DHSVALQLTNLVEGVYTFHLRVTDSDGASDTDATVEVQPDPRKSGLVELTLQVGVGQLTEQRKDTLVRQ  
 LAVLLNVLDSDIKVQKIRAHSDLSTVIVFYVQSRPPFKVLKAAEVARNLHMRLSKEKADFLFKVLRVDT  
 AGCLLKCSGHGHCPLTKRCICSHLWMENLIQRYIWDGESNCGIKHRSTEHNSSLMVSESEFDSDQDTIF  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

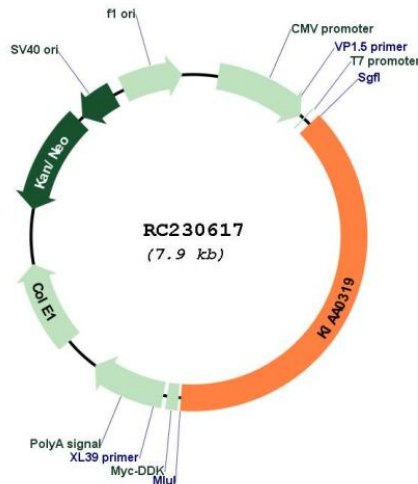
**Restriction Sites:**

Sgfl-Mlul

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>	<a href="#">NM_001168377.1</a> , <a href="#">NP_001161849.1</a>
<b>RefSeq ORF:</b>	3036 bp
<b>Locus ID:</b>	9856
<b>UniProt ID:</b>	<a href="#">Q5VV43</a>
<b>Cytogenetics:</b>	6p22.3
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	110.8 kDa
<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]