

## Product datasheet for **RC230624**

### **KIAA0319 (NM\_001168376) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0319 (NM_001168376) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIAA0319
Synonyms:	AAVR; DYLX2; DYX2; NMIG
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230624 representing NM_001168376 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GCGATCGCC**

ATGCGGGTGTCTCACACCTTCCCTGTCGTAGACTGCACGGCCGCTTGCTGTGACCTGTCCAGCTGTGACC  
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AGGACTTGACCTTTCTAGGCAAAGATTGGGGCCTAGAGGAGATGTCTGAGTACTCAGATGACTACCGGGA  
GCTGGAGAAGGACCTCTTGCAACCCAGTGGCAAGCAGGAGCCAGAGGGAGTGCCGAGTACACGGACTGG  
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AAGTGTGTTGCTTCCCTTGCCGACTACTCCATCTTCAGGAGAGGTGTTGGAGAAAAGAAAAGGCTTCTCAG  
CTCCAGGAACAATCCAGCAACAGCTCTGAAAAAGAGTTCTAATGCCTTCCCATAGTCTTCTCCGGCAA  
GCCTGGAGCTCAGCTCAGTCACCGTGGAGAAAAGCCAGTGCTCACAGTCAACCCGGGAGTACAGAGCA  
CAGCATCCCAACACCTCCCACTAGCGCAGCCCTCTGAGTCCACCCATCTGAGCTACCCATATCTCCT  
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TTGTCCTCTATGAGTGGTCCCTGGGTCCTGGGAGTGAGGGCAAACATGTGGTCATGCAGGGAGTACAGAC  
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 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230624 representing NM\_001168376  
 Red=Cloning site Green=Tags(s)

MRVSHTFPVVDCTAACCDLSSCDLAWWFEGRCYLVSCHKENCEPKMGP IRSYLT FVLRPVQRP AQLLD  
 YGDMMLNRGSPSGIWDSPEDIRKDLTFLGKDWGLEEMSEYSDDYRELEKDLLQPSGKQEP RGS AEYTDW  
 GLLPGSEGA FNSSVGDSPAVPAETQQDPELHYNESASTPAPKLPERSVLLPLPTTPSSGEVLEKEKASQ  
 LQEQSSNSSGKEVLMPSHSLPPASLELSSVTVEKSPVLTVTPGSTEHSIPTPPTS AAPSESTPSELPI SP  
 TTAPRTVKELTVSAGDNL IITLPDNEVELKAFVAPAPPVETTYNYEWNLSHPTDYQGEIKQGHKQTLNL  
 SQLSVGLYVFKVTVSSENAFGEGFVNVTVKPARRVNLPPVAVVSPQLQELTLPLTSALIDGSQSTDDTEI  
 VSYHWEEINGPFIIEKTSVDSPVLRSLNLDPGNYSFRLTVTDSGATNSTTAALIVNNAVDYPPVANAGP  
 NHTITLPQNSITLNGNQSSDHQIVLYEWSLPGGSEGHVVMQGVQTPYLHLSAMQEGDYTFQLKVTDSS  
 RQQTAVVTIVQPENRPPVAVAGPKELIFPVESATLDGSSSSDDHGIVFYHWEHVRG PSAVEMENID  
 KAIATVTGLQVGTYHFRLTVKQQGLSSTSTLTVAVKKENNSPPRARAGGRHVLVLPNNSITLDGSRSTD  
 DQRIVSYLWIRDGQSPAAGDVIDGSDHSVALQLTNLVEGVYTFHLRVTDTSQASD TDTATVEVQDP RKS  
 GLVELTLQVGVGQLTEQRKDTLVRQLAVLLNVLDSDIKQKIRAHSDLSTVIVFYVQSRPPFKVLKAAEV  
 ARNLHMRLSKEKADFLFKVLRVDTAGCLLKCSGHGHC DPLTKRCCSHLWMENLIQRYIWDGESNCEWS  
 IFYVTVLAFTLIVLTGGFTWLCICCKRQKRTKIRKTKYITLDNMDEQERMELRPKYGIKHRSTEHNSS  
 LMVSESEFDSDQDTIFSREKMERGNPKVSMNGSIRNGASF SYCSKDR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

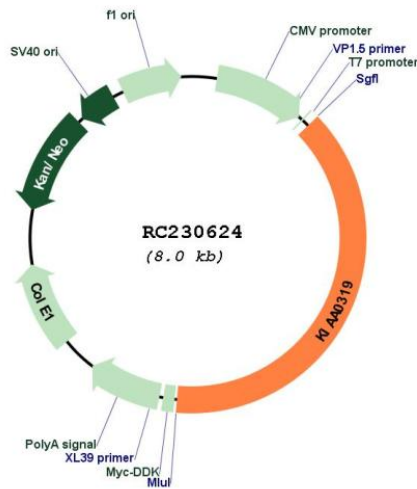
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001168376

ORF Size: 3081 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_001168376.1, NP_001161848.1</u>
<b>RefSeq ORF:</b>	3084 bp
<b>Locus ID:</b>	9856
<b>UniProt ID:</b>	<u>Q5VV43</u>
<b>Cytogenetics:</b>	6p22.3
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	113.5 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]