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Product datasheet for RC214212

KIAA0319 (NM_014809) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0319 (NM_014809) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIAA0319
Synonyms:	AAVR; DYLX2; DYX2; NMIG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214212 representing NM_014809.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCCCCCCACAGGTGTGCTCTCTTCATTGCTGCTGCTGGTGACAATTGCAGGTTGTGCCCGTAAG
CAGTGCAGCGAGGGGAGGACATATTCCAATGCAGTCATTTCACCTAACTTGGAAACCACCAGAATCATG
CGGGTGTCTCACACCTTCCCTGTCGTAGACTGCACGGCCGCTTGCTGTGACCTGTCCAGCTGTGACCTG
GCCTGGTGGTTCGAGGGCCGCTGCTACCTGGTGAGCTGCCCCCACAAAGAGAACTGTGAGCCCAAGAAG
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GTTGACTCTCCCGTCTTACGCTTGTCTAACCTTGATCCTGGTAACTATAGTTTCAGGTTGACTGTTACA

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GACTCGGACGGAGCCACTAACTCTACAACTGCAGCCCTAATAGTGAACAATGCTGTGGACTACCCACCA
GTTGCTAATGCAGGACCAAATCACACCATAACTTTGCCCCAAAACTCCATCACTTTGAATGGAAACCAG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Protein Sequence:

>Peptide sequence encoded by RC214212
Blue=ORF Red=Cloning site Green=Tag(s)

MAPPTGVLSSLLLLVTIAGCARKQCSEGRTYSNAVISPNLETTRIMRVSHTFPVVDCTAACCDLSSCDL
AWWFEGRCYLVSCPHKENCEPKKMGPIRSYLTFVLRPVQRPAQLLDYGDMMLNRGSPSGIWGDSPEDIR
KDLTFLGKDWGLEEMSEYSDDYRELEKDLLQPSGKQEPRGSAEYTDWGLLPGSEGAFNSSVGDSPAVPA
ETQQDPELHYLNESASTPAPKLPERSVLLPLPTTPSSGEVLEKEKASQLQEQSSNSSGKEVLMPSHSLP
PASLELSSVTVEKSPVLTVTPGSTEHSIPTPPTSAAPSESTPSELPISPTTAPRTVKELTVSAGDNLII
TLPDNEVELKAFVAPAPPVETTYNYEWNLISHPTDYQGEIKQGHKQTLNLSQLSVGLYVFKVTVSSENA
FGEGFVNVTVKPARRVNLPPVAVVSPQLQELTLPLTSALIDGSQSTDDTEIVSYHWEEINGPFIEEKTS
VDSPVLRLSNLDPGNYSFRLTVTDSDGATNSTTAALIVNNAVDYPPVANAGPNHTITLPQNSITLNGNQ
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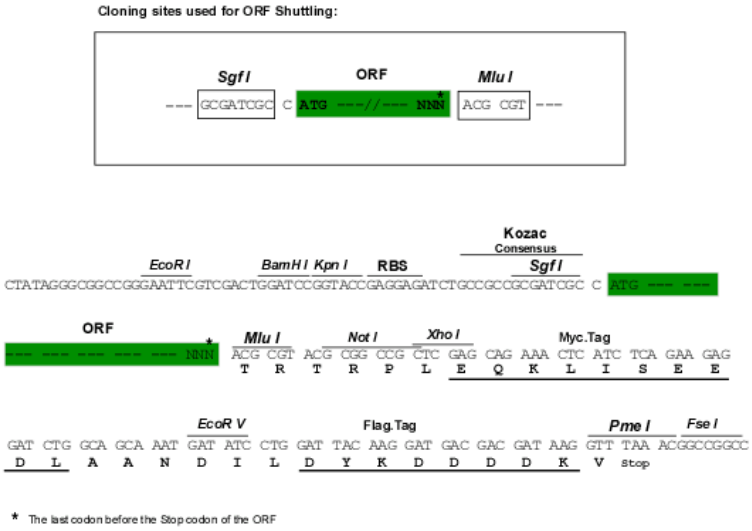
NRPPVAVAGPDKELIFPVESATLDGSSSSDDHGIVFYHWEHVRGPSAVEMENIDKAIATVTGLQVGTYH
FRLTVKDQQGLSSTSTLTVAVKKENNSPPRARAGGRHVLVLPNNSITLDGSRSTDDQRIVSYLWIRDGQ
SPAAGDVIDGSDHSVALQLTNLVEGVYTFHLRVTDSQGASDTDTATVEVQPDPRKSGLVELTLQVGVGQ
LTEQRKDTLVRQLAVLLNVLDSDIKVQKIRAHSDLSTVIVFYVQSRPPFKVLKAAEVARNLHMRLSKEK
ADFLLFKVLRVDTAGCLLKCSGHGHCDPLTKRCICSHLWMENLIQRYIWDGESNCEWSIFYVTVLAFTL
IVLTGGFTWLCICCCKRQKRTKIRKKTKYTILDNMDEQERMELRPKYGIKHRSTEHNSSLMVSESEFDS
DQDTIFSREKMERGNPKVSMNGSIRNGASFSYCSKDR
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC214212 also available, TP314212

Chromatograms: https://cdn.origene.com/chromatograms/mk8009_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014809

ORF Size: 3216 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).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: NM_014809.4

RefSeq Size: 6801 bp

RefSeq ORF: 3219 bp

Locus ID: 9856

UniProt ID: Q5VV43

Cytogenetics: 6p22.3

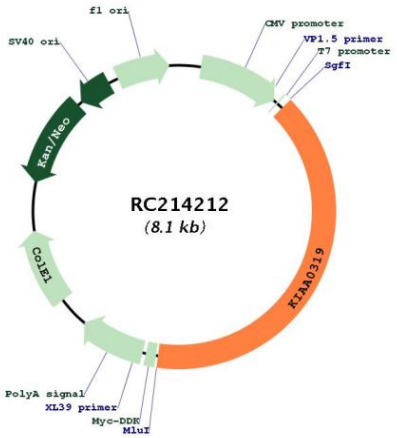
Domains: PKD

Protein Families: Transmembrane

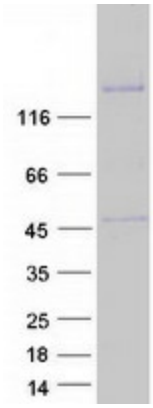
MW: 117.8 kDa

Gene Summary: 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]

Product images:



Circular map for RC214212



Coomassie blue staining of purified KIAA0319 protein (Cat# [TP314212]). The protein was produced from HEK293T cells transfected with KIAA0319 cDNA clone (Cat# RC214212) using MegaTran 2.0 (Cat# [TT210002]).