

## Product datasheet for **RG239909**

### KIAA0528 (C2CD5) (NM\_001286177) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0528 (C2CD5) (NM_001286177) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIAA0528
Synonyms:	CDP138; KIAA0528
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239909 representing NM_001286177. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAGGGAAGCTGAAGGTGAAAATCGTGGCCGGCGCCATTTGCCAGTGATGGACCGTGCTAGTGAC
CTGACTGATGCCTTCGTGGAGGTAAAATTTGGTAATACCACCTTTAAAACAGATGTGTACCTTAAGTCA
CTCAACCCTCAGTGGAACTCGGAGTGGTTAAATTTGAGGTGGATGATGAAGACTTACAAGTGAACCT
TTACAGATCACAGTTCCTGACCATGATACTTACAGTGCAAATGATGCCATTGGTAAAGTGTACATTGAT
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CATGGTATCCGTGGGAAATCAATGTAGTTGTCAAAGTAGACCTTCAATGATTTAAATCGATTTAGG
CAGTCATCATGTGGAGTCAAATCTTTTGCACAACGTCTATTCCAAAATGCTATAGAGCTGTGATAATT
CATGGATTTGTAGAAGAACTTGTGGTCAATGAAGACCCAGAATATCAGTGGATTGATCGAATTCGCACA
CCAAGGGCATCAAATGAGGCCAGACAGAGACTCATTTCGTTAATGTCAGGTGAGCTGCAGAGGAAGATT
GGCTTGAAAGTACTTGAAATGAGAGGAAATGCAGTTGTGGGGTACTTACAGTGTTCGATCTGGAGGGC
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TTCCTTCTGCATGTAATCCCCATCAAAGAAATGAAGGAGTCTCCGCTGGTTCATCTCCAAGCCAT
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GCAAGGTTATGTCGCTTAAAAAGAAAGCACAGGCAGAAGCAAATGCTACAGCTATCAGTAATCTCTTG  
 CCATTTATGGAATATGAAGTGCATACTCAGCTAATGAATAAACTAAAACCAAAGGAATGAATGCTTTG  
 TTTGGACTAAGAATTCAGATCACAGTGGGTGAAAATATGTTGATGGGCTTAGCGTCTGCCACAGGTGTG  
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 GAACAACACATCTCTCATATGCAGAAGAAGATAAATGACACAATTGCTAAAAACAAGAGTTATATGAA  
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 CTTCTAAGATCTCAATCAGAAAGCTCGGATGAAGTTACAGAATTAGACCTTTCACATGGGAAAAAAGAT  
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 GTCTTCATGGAGAATCCAAATAAAAACCAGGCACAGTGTCTTATAAATGTAAGTGGTGATGCAGTGGT  
 TTTGTTCTGTAATCTGACTTAGAAGTGGTGTCTCTCAGCAACCTACTACCAACTGCCAGTCATCATGT  
 ACTGAAGGCGAAGTTACAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:**

>Peptide sequence encoded by RG239909  
 Blue=ORF Red=Cloning site Green=Tag(s)

MPGKLVKIVAGRHLVPMDRASDLTDAFVEVKFGNTTFKTDVYLKSLNPQWSEWFKFEVDEDLQDEP  
 LQITVLDHDTYSANDAIGKVYIDIDPLLYSEAATVISGWFPYDTHGIRGEINVVVKVDLNFNDRFR  
 QSSCGVKFFCTTSIPKCYRAVIIHGFVEELVVEDPEYQWIDRIRTPRASNEARQLISLMSGELQRKI  
 GLKVLLEMRGNAVVGYLQCFDLEGESGLVYRAIGTACTLDKLSPPAFLPACNPSKEMKESPLVHPPSH  
 GCRSTHNSPIHTATGSRLTQNFVSVPVTLIYTMGSGSAGKEGGPFKALLRQQTQSALEQREFPFTLT  
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 PPSGFYSCNTEIMPGINNWTSEIQMFTSVRVIRLSSLNLTNQALNKNFNLDLNCENLLKSLYFKLRSMIPC  
 CLCHVNFVSLPEDELIQVTVTAVAITFDKNQALQTTKTPVEKSLQRASTDNEELLQFPLELCSDSLPS  
 HPFPFAKEHLESASSNSGIPAAQRATSDYSSFADRCSSWIELIKLKAQTIIRRSIKTTMTVEKASPVG  
 DGNFRNRSAPPANSTVGVVMTPLSFIGAKITKYLGIINMFFIRETTSLREEGVSGFLHAFIAEVF  
 AMVRAHVAALGGNAVVSYIMKQCVFMENPNKNQAQCLINVSGDAVVFVRESLDEVSSQQPTTNCQSSC  
 TEGEVTT

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSVSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPISILQNGGPMFA  
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**Restriction Sites:**

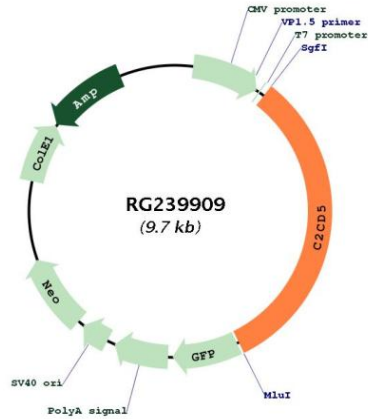
Sgfl-MluI

**Cloning Scheme:**


- ACCN:** NM\_001286177
- ORF Size:** 3126 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\\_001286177.1](#), [NP\\_001273106.1](#)
- RefSeq Size:** 4599 bp
- RefSeq ORF:** 3129 bp
- Locus ID:** 9847
- UniProt ID:** [Q86YS7](#)
- Cytogenetics:** 12p12.1
- MW:** 115.4 kDa

**Gene Summary:**

Required for insulin-stimulated glucose transport and glucose transporter SLC2A4/GLUT4 translocation from intracellular glucose storage vesicle (GSV) to the plasma membrane (PM) in adipocytes. Binds phospholipid membranes in a calcium-dependent manner and is necessary for the optimal membrane fusion between SLC2A4/GLUT4 GSV and the PM.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for RG239909