

## Product datasheet for **RG239920**

### KIAA0528 (C2CD5) (NM\_001286175) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIAA0528 (C2CD5) (NM_001286175) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C2CD5
Synonyms:	CDP138; KIAA0528
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG239920 representing NM_001286175. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAGGGAAGCTGAAGGTGAAAATCGTGGCCGGCGCCATTTGCCAGTGATGGACCGTGCTAGTGAC
CTGACTGATGCCTTCGTGGAGGTAAAATTTGGTAATACCACCTTTAAAACAGATGTGTACCTTAAGTCA
CTCAACCCTCAGTGGAACTCGGAGTGGTTAAATTTGAGGTGGATGATGAAGACTTACAAGATGAACCT
TTACAGATCACAGTTCCTGACCATGATACTTACAGTGCAAATGATGCCATTGGTAAAGTGTACATTGAT
ATTGATCCTTTACTGTATAGTGAAGCTGCAACAGTCATCTCAGGATGGTTTCCAATTTATGACACCATA
CATGGTATCCGTGGGAAATCAATGTAGTTGTCAAAGTAGACCTTCAATGATTTAAATCGATTTAGG
CAGTCATCATGTGGAGTCAAATCTTTTGCACAACGTCTATTCCAAAATGCTATAGAGCTGTGATAATT
CATGGATTTGTAGAAGAACTTGTGGTCAATGAAGACCCAGAATATCAGTGGATTGATCGAATTCGCACA
CCAAGGGCATCAAATGAGGCCAGACAGAGACTCATTTCGTTAATGTCAGGTGAGCTGCAGAGGAAGATT
GGCTTGAAAGTACTTGAAATGAGAGGAAATGCAGTTGTGGGGTACTTACAGTGTTTCGATCTGGAGGGC
GAGTCTGGGTTAGTGGTGCAGCCATAGGAACGGCGTGTACTCTGGATAAATTAAGTAGCCAGCAGCA
TTCCTTCTGCATGTAATCCCCATCAAAGAAATGAAGGAGTCTCCGCTGGTTCATCTCCAAGCCAT
GGATGCCGCTCGACTCACAACAGCCCAATTCACACTGCTACTGGCTCACGACTTACTCAGAACTTCTCT
GTGCTGTTCCCACTCTCATCTATACTGGAATGGGAAGTGGTGTGCTGGAAAAGAGGGGGCCCTTT
AAAGCTTTTTAAGACAACAGACTCAATCAGCGTTGGAACAGAGGAATTTCCATTTTTTACCTTGACG
GCATTTCTCCTGGATTCTTGTACACGTTGGGGTGTAGTTAGTGCACGTTCTGTGAAGCTTTTGGAT
CGTATCCACAATCCTGCCTTTGTGCGAATTATGGGTAACACAAGATCTTACAAACTGCTAGACTGGAAT
AGTTTTCAATTCAGATGAACCAGAAACTCGAGATGCATGGTGGCAGAAATCAGACAAGAAATAAAATCA
CATGCTAAAGCATTAGGCTGTATGCTGTAGTGGGCTACAGTGAATCAACTAGCATCTGTGAAGAGGTC
TGCATTTTATCTGCATCTGGCACAGCGGCTGTACTGAATCCTAGATTTCTGCAGGATGGCACCCTGGAA
GGCTGTTTGAACAGAGGCTTGAAGAAAATTTGCCTACACGTTGTGGATTTTGTATATACCATATGAT
GAACTGAATATGCCATTTCCAGCTCATCTCACATATTGCTATAACTGCAGGAAACAAAAGTTTCTGAT
```



[View online >](#)

GTTCTGTTTACAACATATAGACCTCCCAACAGATGCAACAGTTATTGGAAAAGGTTGTCTTATTCAAGCA  
 AGGTTATGTCGCTTAAAAAGAAAGCACAGGCAGAAGCAAATGCTACAGCTATCAGTAATCTCTTGCCA  
 TTTATGGAATATGAAGTGCATACTCAGCTAATGAATAAACTCAAAGGAATGAATGCTTTGTTT  
 GGACTAAGAATTCAGATCACAGTGGGTGAAAATATGTTGATGGGCTTAGCGTCTGCCACAGGTGTGTAT  
 TTAGCAGCTTTACCAACTCCTGGTGGTATTAGATTGCTGGGAAGACTCCTAATGATGGCTCATATGAA  
 CAACACATCTCATATGCAGAAGAAGATAAATGACACAATTGCTAAAAACAAGAGTTATATGAAATC  
 AATCCCTCAGAGATATCTGAAGAGATTATAGGATCACCCATCCCAAGACTAGGCAACGCTCAAGACTT  
 CTAAGATCTCAATCAGAAAGCTCGGATGAAGTTACAGAATTAGACCTTTACATGGGAAAAAAGATGCT  
 TTTGTTTTGGAGATTGATGACACAGATGCCATGGAAGATGCCATTCTCTACTTACTGATGTTCCCTCT  
 CCTTCAGGCTTTTATAGTTGTAATACAGAAATTATGCCCGGTATAAATAATTGGACCTCTGAAATACAG  
 ATGTTCACTTCAGTAAGAGTAATCAGATTAAGCAGCCTCAACCTGACTAATCAAGCTCTCAATAAGAAC  
 TTTAATGATCTCTGTGAAAATTTGCTCAAGAGCCTGTACTTTAACTACGATCTATGATCCCCTGCTGC  
 CTTTGCCATGTAATTTACAGTATCTCTGCTGAAGATGAATTAATTCAGGTTACAGTCACGGCAGTC  
 GCAATCACTTTTGACAAAAATCAGGCTTTACAACCACAAAAACCCTGTTGAAAAGTCATTGCAAAGA  
 GCCTCAACAGATAATGAAGAAGTTTACAATTTCCACTGGAAGTGTGTTTCAGATTCACTTCTTCTCAT  
 CCTTTTCCACCAGCTAAAGAACACTGGAGAGTCAAGTTCTAATCAGGTATACCAGCTGCACAGAGA  
 GACAGATGCAGCAGCTGGATAGAGCTCATTAAACTGAAAGCTCAGACCATAAGGCGTGGATCAATTAAG  
 ACAACCATGACAGTTGAAAAAGCAAGTCCAGTGGGTGATGGAATTTCCGGAATCGTTCTGCTCCACCT  
 TGTGCAAATCCACAGTTGGGGTGTAAAGATGACACCTTTTCTTTTATTCCTGGAGCAAAAAATACT  
 AAGTATCTTGGGATAATTAACATGTTTTTATTCGAGAGACTACTTCTCTCGGGAGGAAGGAGGAGTC  
 AGTGGTTTTCTCATGCTTTTATGCTGAAGTGTGCAATGGTGAAGAGCTCATGTTGCTGCATTAGGA  
 GGAAGTCTTATAAATGAAGTGGTGTGATGCAGTGGTTTTGTTGCTGAATCTGACTTAGAAGTGGTGTCA  
 TCTCAGCAACCTACTACCAACTGCCAGTATCATGTACTGAAGGCGAAGTTACAACC  
**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:**

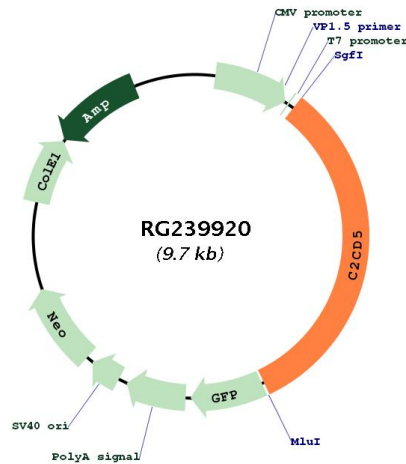
>Peptide sequence encoded by RG239920  
 Blue=ORF Red=Cloning site Green=Tag(s)

MPGKLVKIVAGRHLVPMDRASDLTDAFVEVKFGNTTFKTDVYLKSLNPQWSEWFKFEVDEDLQDEP  
 LQITVLDHDTYSANDAIGKVYIDIDPLLYSEAATVISGWFPYDTHGIRGEINVVVKVLDLNDLNRFR  
 QSSCGVKFFCTTSIPKCYRAVIIHGFVEELVVEDPEYQWIDRIRTPRASNEARQLISLMSGELQRKI  
 GLKVLMEGRNAVVGYLQCFDLEGESGLVYRAIGTACTLDKLSPPAFLPACNPSKEMKESPLVHPPSH  
 GCRSTHNSPIHTATGSRLTQNFVSVPVTLIYTMGSGSAGKEGGPFKALLRQQTQSALEQREFPFTLT  
 AFPPGFLVHGGVVSARSVKLLDRIHNPFAVGMGNTRS YKLLDWNFSNSDEPETRDAWAEIRQEIKS  
 HAKALGCHAVVGYSESTICEEVCILSASGTAAVLNPRFLQDGTVEGCLEQRLEENLPTRCGFCHIPYD  
 ELNMPFPAHLTYCYNCRKQKVPDVLFTTIDLPTDATVIGKGLIQARLRLKKAQAEANATAISNLLP  
 FMEYEVHTQLMNKLLKGMNALFGLRIQITVGENMLMGLASATGVYLAALPTGGIQAIGKTPNDGSYE  
 QHISHMQKINDTIAKNKELYEINPPEISEEIIIGSPIPEPRQRSRLRSQSESSDEVTELDLSHGKKDA  
 FVLEIDDDAMEDVHSLLDVPPPSGFYSCNTEIMPGINNWTSEIQMFTSVRVIRLSSLNLNTQALNKN  
 FNDLCENLLKSLYFKLRSMIPCCLVNFVTSVLPEDLIQVTVTAVAITFDKNQALQTTKTPVEKSLQR  
 ASTDNEELLQFPLELCSDSLPSHPFPAKEHLESASSNGIPAAQRDRCSWIELIKLKAQTIIRRGSIK  
 TTMTVEKASPVGDGNFRNRSAPPCANSTVGVMKMTPLSFIGAKITKYLGIINMFFIRETTSLREEGV  
 SGFLHAFIAEVFAMVRAHVAALGGNAVVSIMKQCVFMENPNKNQAQCLINVSVDVAVFVRESLDEVVS  
 SQPTTNCQSSCTEGVTT  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPISILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001286175

**ORF Size:** 3162 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.

<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>RefSeq:</b>	<u>NM_001286175.1, NP_001273104.1</u>
<b>RefSeq Size:</b>	4635 bp
<b>RefSeq ORF:</b>	3165 bp
<b>Locus ID:</b>	9847
<b>UniProt ID:</b>	<u>Q86YS7</u>
<b>Cytogenetics:</b>	12p12.1
<b>MW:</b>	116.9 kDa
<b>Gene Summary:</b>	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]