

## Product datasheet for **MG211309**

### 4933427D14Rik (NM\_028963) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	4933427D14Rik (NM_028963) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	4933427D14Rik
Synonyms:	C85113; Kiaa0753; MNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MG211309 representing NM\_028963  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGACCAAGCCAGCCAGCTTCTACATGTGTTTACATCTAGCACCCAGTCTCCAACCTGGATGCCATGAGTG  
 ACCCCAGGAACCTTCAGCCCAGAACCAAGCTGCAATTTAATAGGAATGTTCTACAAATCCCAGCAACTT  
 GGCAGTCCGGTACTCTTGCCACATGGAATTTAAATGAAAACTGAAACACTCATAACAATGAATTGAAT  
 CATGGTAAAGACTTGGATTTTAAAGCTGGAATGAATTAAGCAGTTCTGTCTCATTTTCTGTCATATCAG  
 AAGAGAGGCTTAGCTATGCTGTCCACTAGCCAAGAGAGATGTAACGAAAGACAATTTGAAGAACCGT  
 GAAAGATCATCTCAGAAGTCTGCCCCATAGCTCTCACAAGGTATGCACACCAAGGTGAAAGGAAGGAC  
 TCCAAGAGTCAGGATGTCTGTCATTGCAGCCACCAGCCGTCAGAGTAAGCCTCTCCAGCTCGGGCGCTA  
 AGGTGTATGTGTACACATCTCAGCCAGGACGAGCTGATCTTACTGTGCCAAATTCACCACCTACCCATGA  
 TCCAGGACTTCAGCCGCAACCCAGAATAGAGGAGAACAAAACCTGTGGGAACAGAAAGGCTCTGCTAGAA  
 GTTCAGCGACTCCAAAAGGAATTGAGTGGTTGTATCCGTAAAGATAGAAGCACTAACGAAAAAAGATAGAC  
 TAGAAGAGGCTTTGGATCCAGATGAAGAGCATCGAATCCGAGTCAGGAGACAGGAGCAAGCCGTGCGCTG  
 TGCCCGCATGCTCTACGTTCTTCCAGCAGAGTAAAAGAAATCCAGGAAGAAATGGATAAATGAGTCCA  
 CAAAAATTAACATACTAAGAAGTCAATGGGCAGTGTCTAGGCTGGCAGCCGCTCATCGAGCAGCCATCC  
 GGGCCTTGCAAGTGTGTTGCTCACTCAGTTTACTGACCGAGGGGAGCACCCAGTTCTCTGCTCGGTGTAGGGA  
 GCTGGGCAGCCTTATTCGTCAGCTGTGCTGTGTTCCGCAAGCTGGATGCTGATCCCTCTGTGCCAGAC  
 GTGGTCATAGACATCTTGACGAAATCGAGGCTTTGGAGTCTCTCTGGAAAAGAAATTTGACCTAAAA  
 AGGCAAAAGAAATGTTTACAGAAATTCGGAGCAGATTTCTGTTGGTAGCCAAAAGATCTTAGAGATAG  
 GCCAACTGTACTGCCAAAAGTGAGAGGAGACCCTTGGTCACAAAGGAGACATTCACAGGAAACCAAGT  
 CGACCTCTGTGGCAAAGAGGCTTCTTGACGATATGTGTGAGCCTGATGGGGAGCTTCAGAGGCTGGAGA  
 GTGAACCCGATGTGCTGGATGCACATCTTCTTCCAGAAGAAGCCCTCGTATAGAGGACAATGGTACAGA  
 CTTCAAAGACGGAACATTAACCCAGCCAAACCACAGGCAGTGAGAAGGAAGGCTTTGACAGGGTCCATG  
 CCGATTAGGAAGAAAGATACTGTGGAGTACAGCCAGACCACAGCAGGGACTCCACATAGCTGAAAGAAATC  
 GACCAAACCAACCTTACAGCAAAAGCAGGTTACAGCAGACAACAGTGTATCCAGATTAATAATGAACCG  
 ACAGCCTATGAAAGACCATAGGGCTCCTTGGATACCTCCAAACCCACATCCCCACCAGCCTCTCCTAAA  
 TGTGCTCGGTGGATGAAGGTGAAGTACAGCCCCAGGGATGCTGCAAAGGAGCAGTCCCTACAGCAAGAGG  
 ATACCCACAAGGAAAGTCAAGTGAAGGTGATGCTGAGCAAGAAGCAGCCAGGCTTTCTTGCCAGATGC  
 TGAGTCTTCCAAAAGACTGAAGGAACTAGAAGAATTGGAAGCCAAAGAAATGGAAGAAAGCAAAAGCAG  
 AGGCTCAATTGGCTTGAGGCTGAGACTTCTAGAAGAACCAAGAGTTGGATGAACTGAAAGCTGAAGAGA  
 TGGATAGACTTCAAAAATTAAGTGTCTCTGCCACCCAGTTAGCTGACAAGGTGGAGGAGGCGATTTGGA  
 GCGGTTGAAGCCCTCTTGATCAAGGCCAGAGAGTGAATTTCTCGGTGGAAGCAATAGTCATTTGAAG  
 GATCGTCCGTACGGCACGCAGCAGCAGCCAGCCTGCCGAGCAGGCTTCAGATGTACGTTTTGAAT  
 CCAGGAATATTCCTCAGCTGCGTACTGTTTGGAAAGATACTGCTCATGAGCTCTGGGCTAGGACTCAGGA  
 TAAGATCTTGGGTCAGAACTTCAGCCAGATTTGGGGACAGCAAGGACAGCCAGATCTAGAGACCATG  
 ATGCTCCGGATGGAAGAAATGAAAAATACCAGGAGACAGTTCCGCAAAAGATATAATAAAATTTGATACG  
 CTGACCCTCACTTATGGATGCACGAAGAAAGAAATGACCAGAACACCCAGCTGTAAGTGAAGGACCTTT  
 GGCTTCCACCCAATCAAGATCACCAAGACAGCAACTCAAAGTGCCTGCTGTGAACATCTTGTAGAA  
 AGGCCCTGCAATGCCAACTCACTGGATGAAAGTGAACAACAGAGGAGGGATCGGAGAAAAGGGAGGCTC  
 CCCTGCCCTCTCCAGAGAAGACCTGCATCAGAGAAAAGGGCAAACCTCCCTCTCAGTCCACCCAGGAT  
 GCGGCACAGCATTGGTGTACTGTAGCCGTTTGAAGCAATTCCTACGGATCATAGCTCATGAGGCTATA  
 GGCTCCTCAACCATGGCTAATAGCTGAAAGCTTTTCAGATGAGCTGGTAGATGAAGCACTGGGGGCCG  
 TGCTGCAGAAGTGCAGGATGTGTGTAAGACTATGCAGAAGCTGTGTTACCTCAGAGTCTCTAGAGGC  
 CGCTGCA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211309 representing NM\_028963  
 Red=Cloning site Green=Tags(s)

MGPSQPASTCVHLAPSLQLDAMSDPRNLQPQNQLQFNRRVPTNPSNLAVRYSCPHGKIKIEKLKHSYNELN  
 HGKDLDFKAGNELSSSVSFSVISEERLSYAVHLAKRDVKRRQFEEHVKDHLRSLPHSSHKGMMHTKVERKD  
 SKSQDVCHCSHQPSRVSLSSSGAKVYVYTSQPGRADLTVPNSPPTHDPGLQPQPRIEENKNLWEQKGLLE  
 VQRLQKELSGCIRKIEALTKKDRLEEALDPDEEHRIRVRRQEQAVRCARMLYVLQQQVKEIQEELDKLSP  
 QKIKHTKKSVAWSRLAAAHRAAIRALQVFVTQFTDRGEHPVPARCRELGSLIRQLSLCSAKLDADPSVPD  
 VVIDILQQIEALESLEKLSPKKAKKCFTEIRSRFPVGSQKILERWPTVLPKSERRPLVTKETFPQETS  
 RPPVAKRLLAAMCQPDGELQRLESEPDVLDHLLPEEAPRIEDNGTDFKDGTLTPAKPQAVRRKALTGSM  
 PIRKKDTVESARQQGLHIAERNRPNQPYKSRLQQTTVSSRLKMNRPQMKDHRAPWIPPNTSPPASPK  
 CAAMWKVYSPRDAAKEQSLQQEDTHKESQLRGDAEQEAARL SWPDAESSKRLKELEEAKEMERKQKQ  
 RLNLWEAETSRRTELDELKAEEMDRQLKLSVSATQLADKVEEAVLERLPLLIKAQRVNSSVEANSHLK  
 DRPSRHAQAAAAQPAEQASDVRFESRNIPQLRDCL EDTAHELWARTQDKILGSETSARLGDSDKSPDLETM  
 MLRMEEMEKYQETVRQRYNKIVYADPHLWMHEERNDQNTPAVSEGPLASHPIKIKTATQKCPAVNILLE  
 RPCNANSLDESVTTEEGSEKREAPLPLSREDLHQKRGQTPLSVPPRMRHSIGAYCSRFEQFLRIIAHEAI  
 GSFNPWLI AEFSDDELVDEALGAVAAELQDVCEYAEAVFTSEFLEAAA

TRTRPLE - GFP Tag - V

Restriction Sites:

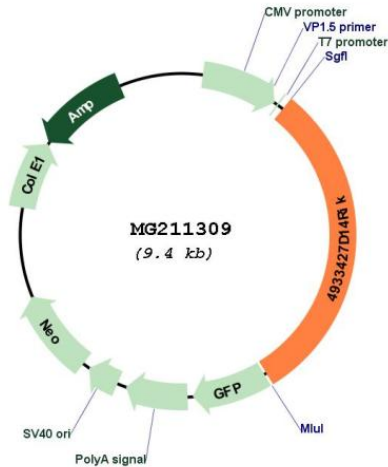
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_028963

ORF Size: 2877 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\\_028963.1](#)

RefSeq Size: 4332 bp

RefSeq ORF: 2880 bp

Locus ID: 74477

UniProt ID: [Q6A000](#)

**Cytogenetics:** 11 B4

**Gene Summary:** Involved in centriole duplication. Positively regulates CEP63 centrosomal localization. Required for WDR62 centrosomal localization and promotes the centrosomal localization of CDK2.[UniProtKB/Swiss-Prot Function]