

## Product datasheet for **MG209082**

### 4432405B04Rik (BC058375) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	4432405B04Rik (BC058375) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	4432405B04Rik
Synonyms:	4432405B04Rik; Tect2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209082 representing BC058375  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCTAGTTTCAGCCTCCACAATGCATCCTGCTTAGCACATCTGCTCATCCAGGTGGAGATTTATC  
 CCAACACATCTGTAACCCACAACGCATCAGAGAACATGACTGTCAATTCCTAACCAAGTCTATCAGCCCT  
 GGGTCCCTGCCCGTGTGACTTAACAGCCAAGGCCTGTGACATTCAATGCTGCTGTGACCAGGACTGTCAG  
 CCAGAAGTAAGAGAGCTGTTTGACAGTCTGCTTCTCCGGCGTGTGGAGGGCACGTACGCCCTCCGT  
 CCCATCATCACTGCGCTGTGAGCACTACTACCAGACTCCTGACTGGTTTCCCCTCTGTGTGTCAGTC  
 GCCACCCTCTACCTCGCCGTTCCCTGGTCACTTCTACCACGGTGCCACTTCCCCAGACATTCCCCCGGC  
 TTTGAAGCCCATTTGCACTTCGACCTAAGAGACTTCGCGGATGCCAGTTACAAGCAAGGAGATCCATTA  
 TGACCACGGAGGGGATTTTACCATCCCCAGGTGTCTAGCTGGCAGTGTCTACAGGATGCTCTGT  
 GGCTTTCCTGAGGAATTTGACAGTGTATGTACCATGGACCTGGAAGTGCACCAAGGACGAGATGAAAT  
 GTCTCGAGAACATGAAAATCCGCACAACAGGAGTCCGGTACACCAACAGTAACTATGAGGAAGCCA  
 TTGACCTGGACAAGTTCATCACCAGCCCGACACAGTTTTAAGTGTGGATCGGCCCCAGAAAACGTGAA  
 TGTGGAAGAACATTATGTCTTACAGATGGCAAAATAATTCCATCAGCGCCCTAGACATCACAGTATCAGG  
 GCAGAAATCAGTGCCAGCAGAGAGGAATGATGACCCAGAGATTCACAGTGAAGTTTTAAGCCATCACA  
 GTGGTGGTGAGAAGGAATTTCTGGAATCCAGGTTACCAGCTTGGCAAGCCGGTCCGAGCCCTGCATAC  
 CGCTGGATGAACGTGACACACTGCACCTTGGCAGCCAGCTGGAAGGGGCCTGTGCACAGCAGCCGCT  
 CTCAGACCCATTTGTTGGAGAAAATGCCTTCTCTGGCTGCCTGCTGGAAGTTGGGATTAAGGAGAACT  
 GTACCCAGCTCAGAGAGAATGCTCTTACAGACTGGATTTGCTGACACAAGCAACGACGTCGGCAGGAG  
 AGGCAACTCGGACTACAGTGATCTGAGTGACGGCTGGCTGGAGATCATAGGTGCCGAAGCCCTGATACA  
 GGTGCCGACCTGCCCTTGAAGCAGCTGAATGGCGTGTGCCAGAAAGTTCCAGCCCGCTCTCCATCCGCA  
 TTCTCACTGCTGAAGCTGGCTCTGTGGAAGGGTGGCTCAGCGGGAGATCCTGGCTGTGGAGACAAGGTT  
 TTCCACAGTGACCTGGCAGTACCAGTGTGGGCTCACTTGTGAGGACAAGGCCGACCTTCTCCCTCAGT  
 GCCTCTGTTGAGTTCATTAATGTCCCTGCGCAGATGCCCCACCCCTACGAGATCCAGATCAACTTCA  
 CAGAGTACGACTGTACCCGGAATGAGCTGTGTTGGCCCCAACTTCTGTACCCTCTGACCCAGTATTATCA  
 AGGGGAGCCCCAGTCTCAGTGTGTGGCCAAAGGCCTGATGCTGCTGCTCACTCCTCATGCTGGCCATCCTC  
 CTCAGGACCCCTGGGTCAGGATGTGCAAAGCCCGGACTCAGCTGCCATCTACCAT

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG209082 representing BC058375  
 Red=Cloning site Green=Tags(s)

MLLVSASHNASCLAHLIIQVEIYPNTSVTHNASENMTVIPNQVYQPLGPCPCDLTAKACDIQCCCDQDCQ  
 PEVRELF AQSCFSGVFGGHVSPSHHCAVSTTHQTPDWFPLLCVQSPSTSPFLGHFYHGATSPRHSPG  
 FEHLHFDLRFADASYKQGDPIMTTEGYFTIPQVSLAGQCLQDAPVAFLRNFDVSVCTMDLEVHQGRDEI  
 VLENMKIRTTGGPVPTPTVYEEAIDLDFITSPDVL SVGSAPRNVNVEEHYVFRWQNSISGLDITVIR  
 AEISAQQRGMTRFTVKFLSHHSGGEKEFSGNPGYQLGKPVRLHTAGMNVSTLHLWQPAGRGLCTAAA  
 LRPILFGENAFSGCLLEVGIKENCTQLRENVLQRLDLLTQATHVARRGNSDYSDDLSDGWLEIIRAEAPDT  
 GADLPLSSVNGVCPVPARLSIRILTAEAGSVEGVAQREILAVETRFSTVTWQYQCGLT CEDKADLLPLS  
 ASVEFINVPAQMPHPPTRFQINFTEYDCTRNELCWPQLLYPLTQYYQGEPSQCVAKGLMLLSLLMLAIL  
 LRHPWVRMCKARDSAAIYH

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC058375

**ORF Size:** 1739 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:** [BC058375](#), [AAH58375](#)

**RefSeq Size:** 2339 bp

**RefSeq ORF:** 1739 bp

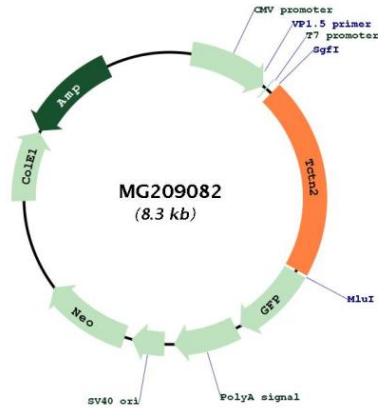
**Locus ID:** 67978

**Cytogenetics:** 5 F

**Gene Summary:**

Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Required for hedgehog signaling transduction.  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209082