

## Product datasheet for **RG212220**

### **TBC1D8 (NM\_001102426) Human Tagged ORF Clone**

#### Product data:

|                    |                                  |
|--------------------|----------------------------------|
| Product Type:      | Expression Plasmids              |
| Tag:               | TurboGFP                         |
| Symbol:            | TBC1D8                           |
| Synonyms:          | AD3; GRAMD8; HBLP1; TBC1D8A; VRP |
| Mammalian Cell     | Neomycin                         |
| Selection:         |                                  |
| Vector:            | pCMV6-AC-GFP (PS100010)          |
| E. coli Selection: | Ampicillin (100 ug/mL)           |

**ORF Nucleotide Sequence:** >RG212220 representing NM\_001102426  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTGGCTCAAGCCCGAGGAGGTGCTGCTGAAGAACGCGCTGAAGCTCTGGGTGACCCAGAAGAGCAGCT  
GCTACTTCATCCTGCAGCGGCCCGCGGGCAGGCGAGGGGGCGGCCGCTCACCGGTGCGCTGGTTCGG  
CGCTCTGGATGCAGTGTGGATTCCAATGCACGGGTGCTCCATTTCAAGTTCTGCTTCAAGTTCCTGGC  
TCCAGGTTTATTTCCCATAGCATGTGGTGCAACATTAGAGGAAATCAATCAGCACTGGGACTGGCTGG  
AACAAAATCCTCCACACCTTGTCTGTCTTTGATAATAAAGATGACATTGCCAGTTTTGTCAAAGGGAA  
GGTAAAGGCTCTGATAGCCGAGGAGACCAGCAGCAGGCTCGCCGAGCAGGAGGAGGAACCCGAGAAATTC  
CGAGAAGCCCTGGTGAAGTTCGAGGCCAGGTTCAACTTCCCGAGGCGGAGAAGCTGGTCACCTACTACT  
CCTGCTGCTGTTGGAAGGCGAGGTCGCCCGCAGGGCTGGCTGTACCTCAGCATCAACCACCTCTGCTT  
CTACTCCTTCTTCTGGCAAGGAACCTAACTTGTGGTTCGTTGGTTGATATCCAGAAATTAGAAAGA  
ACGTCCAATGTCTTTCTGACGGATACCATCCGAATCACCACGCAGAATAAGGAGCGTGACTTCTCCATGT  
TCCTGAACCTGGATGAGGTGTTAAGGTATGGAGCAGCTGGCCGACGTGACGCTGCGAAGGCTGCTGGA  
TAATGAGGTCTTTGACCTCGACCCCGATCTGCAGGAGCCGAGCCAGATCACCAGAGGGACCTGGAAGCC  
AGAGCACAGAATGAGTTCTTCGGGGCTTTCTTCAGTTGCCGAGGAAGGAGAAGCTGCACGCGTTGTGG  
ACTGTTCTGCTCTGGACGCCGTTCACTCGCTGCACACACGGGGCGGATGTTTCGCTCTGACAGTACAT  
CTGCTTTGCCAGCAGAGAAGATGGCTGCTGAAGATCATCCTGCCACTCAGAGAGGTGGTGAGCATCGAG  
AAGATGGAGGACACGAGCCTGCTGCCGCATCCCATCATTGTCAAGTATCAGAAGCAAGGTGGCCTTCCAGT  
TCATTGAGCTCCGGGACCGAGACAGCCTGGTGGAGGCGCTGCTTGCAGGTTGAAGCAGGTCCACGCCAA  
CCACCCCGTCACTACGACACCTCTGCGGATGATGACATGGCTTCACTCGTGTTCATTCAACAAGCATG  
TGCAGTGACCACAGATTGGGGATCTTGAAATGATGTCTTCTCAAATAGCAGGAGAGTGAGAAAGAGA  
AGAGCCCGCTGATGCACCCGATGCCCTGGTCACCGCTTCCAGCAGTCAGGCAGCCAGAGCCCTGACTC  
CCGAATGTCCAGAGAACAGATAAAATAAGCCTGTGGAATGACCACTTTGTGGAATACGGCAGAACCGTG  
TGTATGTTTCGCACAGAGAAGATTCCGAAGCTCGTAGCCATGGGCATCCCTGAATCTTTCGAGGGAGAC



TCTGGCTTCTCTTCTCAGATGCGGTGACGGATCTTGCCTCACACCTGGTTACTACGGGAATCTGGTGA  
GGAGTCCCTGGGAAATGCTGCCTGGTAACCGAGGAGATAGAACGAGACCTGCACCGCTCCCTGCCAGAG  
CACCCCGCCTTCCAGAACGAAACGGGAATTGCTGCTTTGAGGAGAGTCTTGACGGCCTATGCCACCGGA  
ACCCCAAGATTGGATACTGCCAGTCCATGAACATCCTGACCTCCGTGCTGCTGTACACCAAGGAGGA  
GGAAGCCTTCTGGCTGTTGGTTGCTGTGTGTGAGCGGATGCTGCCCGATTACTCAACCACCGAGTGATC  
GGGGCACAAGTTGACCACTGTCTTCGAGGAGCTCATCAAGGGTCATCTCCAGAGCTGGCAGAGCACA  
TGAACGACCTCTCAGCCCTGGCGTCCGTCTCTCTCTCGTGGTTCTGACCTGTTCTCAGCATCATGCC  
TCTAGAGAGTGCAGTGAATGTGGTAGACTGCTTCTTATGATGGCATCAAAGCCATCTTCCAGCTGGGA  
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TCAGCAGGTTTCTAGATCACATTAAGAATGAGGACAGCCAGGGCCCCAGTTGGCAGCCACCATGCCTT  
TTTCTCCGACGACCAGGAGCCCTACCCTGTGACTGATATTTGCGACCTGATCCGGGATTCTATGAGAAA  
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ACGAGGACACCACAAGCAGACGTGCTTCGAGTCGTTATCCCGGAAGTCTCAATTCTTCTGAAGACCT  
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TGTTTCAGCTAGTCTCGCCCTGGACCTGCGGGGCCACACGAGATCCTCGCCGAAAGGACGTTACGGCT  
CTTGATGACAACATGGACAGCTCATCGAGTTCAAAGCGTTTGTGAGCTGCCTCGATATTATGTATAAT  
GGAGAAATGAATGAGAAGATTAACATATTATACAGGCTTCATATCCCTCCAGCACTCACTGAAAAAGACC  
GAGACAGCCAGTCGCCGTTGAGGAATCCTCTGTTGTCAACATCGAGACCCCTGGTTTTCGGGAAACCCAA  
TGGTGATGCAGTTGATTATCAGAAACAGCTGAAGCAGATGATTAAAGGATTAGCCAAAGAAAAAGATAAA  
ACTGAGAAAGAATTGCCAAAATGAGCCAGAGAGAATTTATCCAGTTCTGTAAAACCTGTACAGATGT  
TCCATGAAGATCCAGAAGAAATGATTTGTATCAAGCCATCGCCACAGTACCACACTGCTGCTGCAGAT  
CGGGGAGGTGGGCGAGGAGCAGCTCTGGAAGCTGCTCCAGGAGTGTGGGAGGAGCTGCGGGCT  
TCAGCTCCTTCTCTGAGGACTCGGTTTTGTCAGACTGGGAAAGACGCCCCAGGACTCCACAGGCAATTC  
CAGAGGCGGCAGAAAGGAGTGGACTGTCTCCCTTGAACATATTTAGCTTCACTTCTGACTGAACAGTC  
ATTAGTCAACTTTTTGAAAAGCCACTGGACATGAAATCCAAACTTGAAATGCCAAGATCAATCAGTAC  
AATCTCAAACTTTTGAATGAGCCACCAATCAACATCTGAACCTTAAGCTGAGTAACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

# Protein Sequence:

>RG212220 representing NM\_001102426

Red=Cloning site Green=Tags(s)

MWLKPEEVLLKNLKLWVTQKSSCYFILQRRRGHGEgggRLTGRLVGALDAVLDSNARVAPFRILLQVPG  
SQVYSPIACGATLEEINQHWDLQNLHLTLVFDNKDDIASFVKGKVKALIAEETSSRLAEQEEPEKF  
REALVKFEARFNFPEAEKLVYYSCCWKGRVPRQGWLYLSINHLCFYSFFLGKELKLVVPWVDIQKLER  
TSNVFLTDIRITTQNKERDFSMFLNLDEVFKVMEQLADVTLLRRLDNEVFDLDPDLQEPSQITKRDL  
RAQNEFFRAFFRLPRKEKLHVVDCSLWTFPSRCHTTGRMFASDSYICFASREDGCCCKIILPLREVVSIE  
KMEDTSLPHPIIIVSIRSKVAFQFIELRDRDSLVEALLARLKQVHANHPVHYDTSADDDMASLVFHSTSM  
CSDHRFGDLEMSSQNSEESEKESPLMHPDALVTAQQSGSQSPDSRMSREQIKISLWNDHFVEYGRV  
CMFRTEKIRKLVMGIPESLRGLWLLFSDAVTDLASHPGYGNLVEESLGKCLVTEEIERDLHRSLEPE  
HPAFQNETGIAALRRVL TAYAHNPKEIGYCQSMNILTSLLLYTKEEEAFWLLVAVCERMLPDYFNHRVI  
GAQVDQSVFEELIKGHLPELAHEMNDLSALASVSLSWFLTLFLSIMPLESAVNVDCCFFYDGIKAIQFQLG  
LAVLEANAEDLCSSKDDQALMILSRFLDHIKNEDSPGPPVGSHPHAFSDDQEPYPVTDISDLIRDSYEK  
FGDQSVSEQIEHLRYKHRIQVQLGHEDTTKQNVLRVVIPEVSILPEDLEELYDLFKREHMMSYWEQPRPM  
ASRHDPSPRYAEQYRIDARQFAHLFQLVSPWTCGAHTEILAERTFRLLDDNMDQLIEFKAFVSCLDIMYN  
GEMNEIKLLYRLHIPPAL TENDRDSQSPLRNPLLSRPLVFGKPNGDAVDYQKQLKQMIKDLAKEKDK  
TEKELPKMSQREFIQFCKTLYSMFHEDPEENDLYQAIATVTLLLLQIGEVGQRGSSSGSCSQECGEELRA  
SAPSPEDSVFADTGKTPQDSQAFPEAAERDWTVSLEHILASLLTEQSLVNF FEKPLDMKSKLENAKINQY  
NLKTFEMSHQSQSELKLSNL

TRTRPLE - GFP Tag - V

# Restriction Sites:

Sgfl-MluI

## Cloning Scheme:



**ACCN:** NM\_001102426

**ORF Size:** 3420 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).

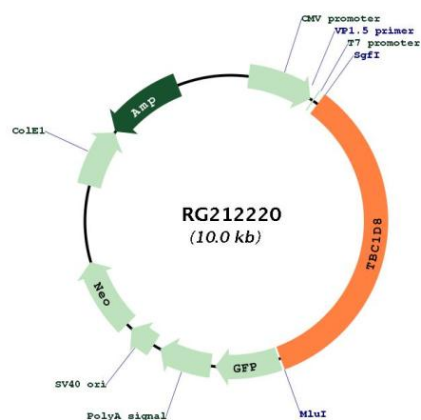
**Reconstitution Method:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

|               |                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------|
| RefSeq:       | <u>NM_001102426.2</u>                                                                            |
| RefSeq Size:  | 4163 bp                                                                                          |
| RefSeq ORF:   | 3423 bp                                                                                          |
| Locus ID:     | 11138                                                                                            |
| UniProt ID:   | <u>O95759</u>                                                                                    |
| Cytogenetics: | 2q11.2                                                                                           |
| Gene Summary: | May act as a GTPase-activating protein for Rab family protein(s).[UniProtKB/Swiss-Prot Function] |

### Product images:



Circular map for RG212220