

## Product datasheet for **RG212247**

### **GAB4 (NM\_001037814) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GAB4 (NM_001037814) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GAB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG212247 representing NM\_001037814  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCCTGCCGTCCCCCTCACCTCCCGGAGCTGTGCCACCTGACCCGGCATTGCGCCTTTGTCTT  
 CGTGGCCCGGAAGTGGCCCCCGCGGGAAGCAGGAGAAGTGGCCACGTGCTGTACAGCGCTGGCTGAG  
 GAAGTCGCCCCCGAGAAGAAGCTGAGGCTCTTTGCTGGAGGAAACGCTGGTTTATCCTCGGGAGGGC  
 CAGACTAGCAGTGACCCAGATGTTCTGGAATACTACAAGAATGATGGCTCCAAGAAGCCCCTGCGCACCA  
 TCAACCTGAACCTCTGTGAGCAGCTGGATGTTGATGTGACTCTGAACTTCAACAAGAAGGAGATTAGAA  
 GGGCTATATGTTGACATCAAGACCAGTGAAGCTACCTTTTACCTGGTGGCTGAGACCAGGGAGGACATG  
 AATGAGTGGGTCCAGAGCATCTGCAGATCTGTGGCTTCAGGCAGGAGGAAAGCACAGGCTTCTGGGAA  
 ACATTTCTCAGCAGTACGGCCTCTGCTCTTCTCCAGCTGAGCCAGCTGCTCCCATCAGCACCTCCC  
 CCAAGAACAAGAACCACATCTGAGCCCCGGTGTCTACTGTGTGCCGCCACCTGGCCATCCCTGCA  
 CCTCCGGGGTGTCTCCGCTCGCACCAGCAGCCAGCCAGAGAGCAGAACATGCAAGGAGTGCCAGCTTCT  
 CCCAGGGTTCTGAGGCCCATTCATCATGAGGAGAAACACAGCCATGCAAAATCTTGCCAGCACAGTGG  
 ATACAGTGTGATGGGTGAGCGGTACATCCATGGCTTCCATAGCCTTTCCAAGCCAGCCAGCACAAAT  
 GCAGAATTCAGAGGCAGCACCCACAGAATCCCCTGGAGCTGGCTCCCATGGCCACACCAGAGGCAGCC  
 TCACAGGCTCTGAGGCGGATAATGAGGCTTCTCCGGCAAGTACACCCAGCATGGTGGAGGGAATGCCAG  
 CCGGCTGCTGAGTCCATGCATGAGGGAGTCTGTTCTTTCTGCCAGGAAGAAGCCTTGTGGCCTGTCA  
 GACAGCATTGCTTCTGAGGGCAGCTGTGTGCCATGAACCCAGGCTCCCCTACCTGCCGCTGTGAAGC  
 AAGCAGCGATGATTCCAGGGTGTCTGCATCCCTGTGGGCTCATGTCTTGTTCGCTTTGACCTGCTTGG  
 CTCCCCACTCACAGAGCTTTCTATGCACCAAGACCTCAGCCAGGACATGAGGTCCAGCTGCCCCCTGTC  
 AACCGCAGCCTCAAGCCTAACCGAAGGCCAACCAACACCGCCCAACCTGAGAAACAACAGGGTATCA  
 ATGAGCTCTCCTCAAGCCACCTGTACAGAGCCCTGGTCTGGGACCAGCCACACCTTTGACTCCAGCTC  
 CTCCCAACACCCCATCTCCACGCAGAGCATCACCAACACAGACTCAGAAGACAGTGGAGAGAGGTATCTT  
 TCCCCGAACCCGGCATCTGCATTTCTGTTTCCGGTGGCACCAGCAGTTCAGCCCCGCCGAGGAGCACTG  
 GTAACATCCACTACGCGGCCCTGGACTTCCAGCCGAGCAAGCCATCCATAGGCTCTGTACAGTCCGGCAA  
 GAAGGTGGACTATGTCCAGGTGGATCTGGAGAAGACCCAGGCCCTGCAGAAGACCATGCATGAACAGATG  
 TGCTGCGGCAGTCTCAGAGCCTCCAGGGGCGCCAAGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG212247 representing NM\_001037814  
 Red=Cloning site Green=Tags(s)

MSLPSPSPSRELCPPDPAFAPLSSWPGSGPAGGSTRSGHVLVYSGWLRKSPPEKKLRLFAWRKRFILRRG  
 QTSSDPDVLEYKNDGSKKPLRTINLNLCEQLDQVDVTLNFNKKEIQKGYMFDIKTSERTFYLVAEETREDM  
 NEWVQSIQICGFRQEESTGFLGNISSASHGLCSSPAEPSCSHQHPQEQEPTSEPPVSHVCPPTWPIPA  
 PPGCLRSHQHASQRAEHARSASFQSGSEAPFIMRRNTAMQNLAQHSGYSVDGVSQHIHGFFHSLSKPSQHN  
 AEFRGSTHRIPWSLASHGHTRSLTGSEADNEASSGKYTQHGGNASRPAESMHEGVCSFLPGRTLVGLS  
 DSIASEGSCVPMNPGSPTLPAVKQAGDSDQGVCI PVGSCLVRFDLLGSPLTELSMHQDLSQGHEVQLPPV  
 NRSLKPNQKANPTPPNLRNRRVINELSFKPPVTEPWSGTSHTFDSSSSQHPITQSIINTDSEDSGERYL  
 FPNPASAFPVSGGTSSSAPPRSTGNIHYAALDFQPSKPSIGSVTSKKVDYVQVDLEKTQALQKTMHEQM  
 CLRQSSEPPRGAKL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ORF Size:</b>	1722 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001037814.1</a> , <a href="#">NP_001032903.1</a>
<b>RefSeq Size:</b>	2630 bp
<b>RefSeq ORF:</b>	1725 bp
<b>Locus ID:</b>	128954
<b>UniProt ID:</b>	<a href="#">Q2WGN9</a>
<b>Cytogenetics:</b>	22q11.1