

## Product datasheet for **RG210225**

### **GPA33 (NM\_005814) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPA33 (NM_005814) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPA33
Synonyms:	A33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210225 representing NM_005814 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGGAAGATGTGGCCTGTGTTGTGGACTCTGTGCAGTCAGGGTGACCGTCGATGCCATCTCTG  
TGGAACTCCGCAGGACGTTCTTCGGGCTTCGCAGGAAAGAGTGCACCCTGCCCTGCACCTACCACAC  
TTCCACCTCCAGTCGAGAGGGACTTATTCAATGGGATAAGCTCCTCCTCACTCATACGGAAGGGTGGTC  
ATCTGGCCGTTTTCAAACAAAACTACATCCATGGTGAGCTTTATAAGAATCGCGTCAGCATATCCAACA  
ATGCTGAGCAGTCGATGCCTCCATCACCATTGATCAGCTGACCATGGCTGACAACGGCACCTACGAGTG  
TTCTGTCTCGCTGATGTCAGACCTGGAGGGCAACACCAAGTACGCTGTCGGCCTGTTGGTCTCGTGCCA  
CCCTCAAACAGAAATGCGGCATCGAGGGAGAGACCATAATTGGGAACAACATCCAGCTGACCTGCCAAT  
CAAAGGAGGGCTCACCAACCCCTCAGTACAGCTGGAAGAGGTACAACATCCTGAATCAGGAGCAGCCCT  
GGCCCAGCCAGCCTCAGGTGAGCCTGTCTCCCTGAAGAAATATCTCCACAGACACATCGGGTTACTACATC  
TGTACCTCCAGCAATGAGGAGGGGACGCAGTCTGCAACATCACGGTGGCCGTGAGATCTCCCTCCATGA  
ACGTGGCCCTGTATGTGGGCATCGCGGTGGCGTGGTTGCAGCCCTCATTATCATTGGCATCATCATCTA  
CTGCTGCTGCTGCCGAGGGAAGGACGACAACACTGAAGACAAGGAGGATGCAAGGCCGAACCGGGAAGCC  
TATGAGGAGCCACCAGAGCAGCTAAGAGAACTTCCAGAGAGAGGAGGAGGAGGATGACTACAGGCAAG  
AAGAGCAGAGGAGCACTGGGCGTGAATCCCCGGACCACCTCGACCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210225 representing NM\_005814  
 Red=Cloning site Green=Tags(s)

MVGKMWPVLWTLCAVRVTVDAISVETPQDVLRASQGKSVTLPCITYHTSTSSREGLIQWDKLLLTHTERVV  
 IWPFSNKNYIHGELYKNRVSISNNAEQSDASITIDQLTMADNGTYECSVLSMSDLEGNTKSRVLLVLP  
 PSKPECGIEGETIIGNNIQLTCQSKEGSPTPQYSWKRYNILNQEQLAQPASGQPVSLKNISTDTSGYI  
 CTSSNEEGTQFCNITVAVRSPSMNVALYVGIAVGVVAALIIIGIIYCCCCRGKDDNTEDKEDARPNREA  
 YEEPPEQLRELSREREEEDDYRQEEQRSTGRES PDHLDQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005814

**ORF Size:** 957 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\\_005814.3](#)

**RefSeq Size:** 2793 bp

**RefSeq ORF:** 960 bp

**Locus ID:** 10223

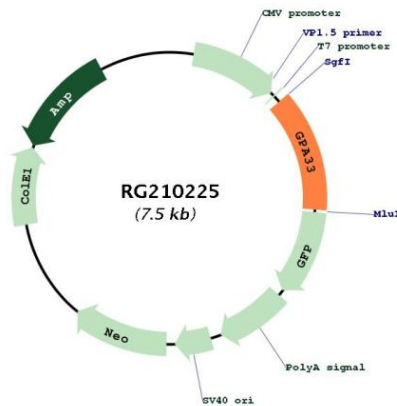
**UniProt ID:** [Q99795](#)

**Cytogenetics:** 1q24.1

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The glycoprotein encoded by this gene is a cell surface antigen that is expressed in greater than 95% of human colon cancers. The open reading frame encodes a 319-amino acid polypeptide having a putative secretory signal sequence and 3 potential glycosylation sites. The predicted mature protein has a 213-amino acid extracellular region, a single transmembrane domain, and a 62-amino acid intracellular tail. The sequence of the extracellular region contains 2 domains characteristic of the CD2 subgroup of the immunoglobulin (Ig) superfamily. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG210225