

## Product datasheet for **RG211150**

### **GAS8 (NM\_001481) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GAS8 (NM_001481) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GAS8
Synonyms:	CILD33; DRC4; GAS11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211150 representing NM\_001481  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACCGAAAAAGAAAGGGAAGAAAGGCAAAGCCAAAGGCACCCCGATTGTCGATGGGCTCGCTCCAG  
 AGGACATGAGCAAGGAGCAGGTGGAGGAGCATGTGAGCCGCATCCGGGAGGAGCTGGACCGGAGCGGGA  
 GGAACGAAACTACTTCCAGCTGGAGCGGGACAAGATCCACACCTTCTGGGAGATCACACGGAGGCAGCTG  
 GAGGAGAAGAAGGCTGAGCTGCGGAACAAGACCCGGGAGATGGAAGAAGCCGAGGAGAGGCACCAGGTGG  
 AGATCAAGGTGTACAAGCAGAAAGTGAAGCACCTGCTATATGAGCACCAGAACAACCTGACAGAGATGAA  
 GGCTGAGGGCACTGTAGTCATGAAGCTGGCACAGAAAGAGCACCCGCATACAGGAGAGTGTCTGCGCAAG  
 GACATGCGGGCACTGAAGGTGGAGCTCAAGGAGCAGGAGCTGGCCAGTGAAGTGGTGGTGAAGAACCTGC  
 GGCTGAAACACACCGAGGAGATCACCAGGATGCGGAATGATTTTGAGAGGCAAGTTCGAGAAATTGAGGC  
 CAAGTATGATAAGAAGATGAAGATGCTGAGGGACGAACCTGACTTGGGAGAAAGACTGAGCTCCACGAA  
 GTGGAGGAGAGGAAGAATGGCCAGATCCACACGCTGATGCAGCGCCACGAGGAGGCTTCCACCGACATTA  
 AGAACTACTACAACGACATCACCTCAACAACCTGGCCCTCATCAACTCCCTCAAGGAGCAGATGGAGGA  
 CATGCGGAAGAAGGAGGACCACCTGGAGAGGGAGATGGCAGAGGTGTCTGGGAGAAACAGCGCCTGGCA  
 GACCTCTCCAGAAGGCTCGGGAGGAGATGAGCGAGATGCAGAAACAGCTCGAAACTACGAGAGGGACA  
 AGCAGATCCTGCTTGCACAAAAGCCCGTTTGAAGTCAAGGAGAAAGAGCTGAAAGACCTGCAGTGGGA  
 GCATGAAGTGTAGAGCAGCGATTACCAAGGTGCAGCAGGAGCGGGACGAGCTCTATCGGAAGTTCACC  
 GCAGCCATCCAGGAGGTGCAGCAGAAGACAGGGTTCAAGAACCTCGTGTAGAACGCAAGCTGCAGGCTC  
 TGAGCCCGCTGTGGAGAAGAAGGAGTGCAGTCAACGAGTCTGGCTGCCTAACCTGGACCTGC  
 AGCCCTGACGCTGGTGTCCCGCAAGCTGGAGGATGTTCTTGAGTGAAGAACAGCACCATCAAGGACCTG  
 CAGTATGAGCTGGCCAGGTCTGTAAAGCCATAACGACCTGCTGCGCACGTATGAGGCAAAAGCTGCTGG  
 CCTTCGGGATCCCTCTGGACAACGTGGGCTTCAAGCCCTTGGAAACAGCTGTGATCGGACAGACTGGG  
 CCAGGGCCCCGCGGGACTGGTGGGCACCCCGACG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211150 representing NM\_001481  
 Red=Cloning site Green=Tags(s)

MAPKKKGKKGKAGTPIVDGLAPEDMSKEQVEEHVSRIREELDREREERNYFQLERDKIHTFWEITRRQL  
 EEKKAELRNKDREMEEAERHQVEIKVYKQVKHLLYEHQNNLTEMKAEGTVVMKLAQKEHRIQESVLRK  
 DMRALKVELKEQELASEVVVKNLRLKHTEIITRMRNDFERQVREIEAKYDKMKMLRDELDRRKTTELHE  
 VEERKNGQIHTLMQRHEEAFTDIKNYYNDITLNNLALINSLKEQMEDMRKKEDHLEREMAEVSGQNKRLA  
 DPLQKAREEMSEMQLANYERDKQILLCTKARKVREKELKDLQWEHEVLEQRF TKVQQERDEL YRKFT  
 AAIQEVQKQTKGFKNLVLERKLQALSAAVEKKEVQFNEVLAASNLDPAALTLVSRKLEDVLESKNSTIKDL  
 QYELAQVCKAHDLLRITYEAKLLAFGIPLDNVGFKPLETAVIGQTLGQGPAGLVGTPT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001481

**ORF Size:** 1434 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\\_001481.3](#)

**RefSeq Size:** 3186 bp

**RefSeq ORF:** 1437 bp

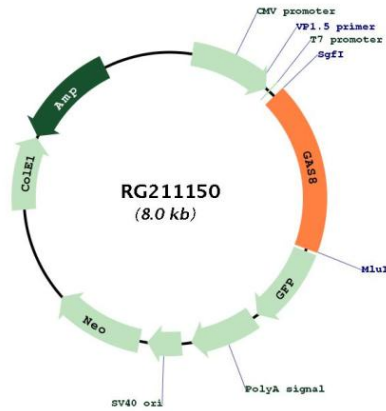
**Locus ID:** 2622

**UniProt ID:** [O95995](#)

**Cytogenetics:** 16q24.3

**Gene Summary:** This gene includes 11 exons spanning 25 kb and maps to a region of chromosome 16 that is sometimes deleted in breast and prostate cancer. The second intron contains an apparently intronless gene, C16orf3, that is transcribed in the opposite orientation. This gene is a putative tumor suppressor gene. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]

**Product images:**



Circular map for RG211150