

Product datasheet for **RG238839**

GPR161 (NM_001267611) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR161 (NM_001267611) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR161
Synonyms:	RE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238839 representing NM_001267611.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAAAGTCGTCCAGCATGCTCTGCCACCCACGCCGAGGTGCACTGACCATGAGCCTCAACTCCTCC
CTCAGCTGCAGGAAGGAGCTGAGTAATCTCACTGAGGAGGAGGTGGCGAAGGGGGCGTCATCACC
CAGTTCATCGCCATCATTGTATCACCATTTTTGTCTGCCTGGGAAACCTGGTCATCGTGGTCACCTTG
TACAAGAAGTCCACCTCCTCACCTCAGCAACAAGTTCGTCTTCAGCCTGACTCTGTCCAACTCCTG
CTGTCCGTGTTGGTGCTGCCTTTTGTGGTGACGAGCTCCATCCGCAGGGAATGGATCTTTGGTGTAGTG
TGGTGCAACTTCTCTGCCCTCCTCTACCTGCTGATCAGCTCTGCCAGCATGCTAACCTCGGGGTCATT
GCCATCGACCGCTACTATGCTGTCTGTACCCCATGGTGTACCCCATGAAGATCACAGGGAACCGGGCT
GTGATGGCACTTGTCTACATCTGGCTTCACTCGCTCATCGGCTGCCTGCCACCCCTGTTTGGTTGGTCA
TCCGTGGAGTTTACGAGTTCAAATGGATGTGTGGCTGCTTGGCACCGGGAGCCTGGCTACACGGCC
TTCTGGCAGATCTGGTGTGCCCTTTCCCTTTTCTGGTATGCTGGTGTGCTATGGCTTCATCTCCGC
GTGGCCAGGGTCAAGGCACGCAAGGTGCACTGTGGCACAGTCGTATCGTGGAGGAGGATGCTCAGAGG
ACCGGGAGGAAGAACTCCAGCACCTCCACCTCCTTTCAGGCAGCAGGAGGAATGCCTTTCAGGGTGTG
GTCTACTCGGCCAACAGTGCAAGCCCTCATACCATCCTGGTGGTCTCGGTGCCCTTCATGGTCACC
TGGGGCCCTACATGGTTGTATCGCCTCTGAGGCCCTCTGGGGAAAAGCTCCGTCTCCCCGAGCCTG
GAGACTTGGGCCACATGGCTGTCTTTGCCAGCGCTGTCTGCCACCCCTGATCTATGGACTCTGGAAC
AAGACAGTTCGAAAGAAGTACTGGGCATGTGCTTTGGGACCGGATTATCGGGAACCATTTGTGCAA
CGACAGAGGACTTCCAGGCTCTTCAGCATTTCCAACAGGATCACAGACCTGGGCCTGTCCCACACCTC
ACTCGCTCATGGCAGGTGGACAGCCCTGGGGCACAGCAGCAGCACGGGGGACACTGGCTTCAGCTGC
TCCAGGACTCAGGGACAGATATGATGCTGTGAGGACTACACGTCTGATGACAACCTCCCTCTCAC
TGCACTTGCCACCCAAGAGAAGGAGCTCGGTGACATTTGAGGATGAAGTGAACAAATCAAAGAAGCT
GCCAAGAAGTTCGATTCTCATGTGAAAGCTGAAGTACACAAGTCTTGGACAGTTACGCAGCAAGCTTG
GCCAAGCCATTGAGGCCGAAGCCAAAATCAACTATTTGGGGAGGAGGCTTGGCAGGGGTCTTGGTT
ACAGCACGGACTGTCCCGGGGGCGGCTTCGGGGGCCGCCGAGGCAGCAACTCTTGTGAGCCAGAGG
CTGCAGTTGCAGAGCATCGAAGAAGGAGATGTTTTAGTCCGAGCAGAGA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

Protein Sequence:

>Peptide sequence encoded by RG238839
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MKVVQHALPTPRRGA L TMSLNSSLSCRKELSNL TEEEGGEGGVIITQFIAIIVITIFVCLGNLIVVTL
YKKS YLLTL SNKFVFS L TSNFLLSVL VLPFVVTSSIRREWIFGVVWCNFSALL YLLISSASMLTLGVI
AIDRYAVLYPMVYPMKITGNRAVMALVYIWLHSLIGLPLFGWSSVEFDEFKWMCVAAWHREPGYTA
FWQIWCALFPFLVMLV CYGIFRVARVKARKVHCGTVVIVEEDAQRTGRKNSSTSSSSGRRNAFQGV
VYSANQCKALITILVVLGAFMVTWGPYMVVIASEALWGKSSVSPSLETWATWLSFASAVCHPLIYGLWN
KTVRKELLMCFGDRYYREPFVQRQRTSRLFSISNRITDLGLSPHLTALMAGGQPLGHSSSTGDTGFSC
SQDSGTMMLLEDYTSDDNPPSHCTCPPKRRSSVTFEDEVQIKEAAKNSILHVKAHVHKSLSDYAASL
AKAIEAEAKINLFGEEALPGVLVARTVPGGGFGRRRSRTLVSQRLQLQSIIEGDVLAEEQR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

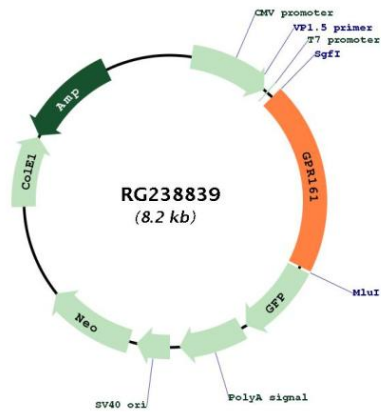
Restriction Sites:

Sgfl-MluI

Cloning Scheme:


- ACCN:** NM_001267611
- ORF Size:** 1638 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).
- RefSeq:** [NM_001267611.1](#), [NP_001254540.1](#)
- RefSeq Size:** 7815 bp
- RefSeq ORF:** 1641 bp
- Locus ID:** 23432
- Cytogenetics:** 1q24.2
- Protein Families:** Druggable Genome, GPCR, Transmembrane
- MW:** 60.9 kDa
- Gene Summary:** The protein encoded by this gene is an orphan G protein-coupled receptor whose ligand is unknown. This gene is overexpressed in triple-negative breast cancer, and disruption of this gene slows the proliferation of basal breast cancer cells. Therefore, this gene is a potential drug target for triple-negative breast cancer. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG238839