

Product datasheet for **RG213578**

GIGYF1 (NM_022574) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GIGYF1 (NM_022574) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GIGYF1
Synonyms: GYF1; PERQ1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213578 representing NM_022574
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCAGAGACTCAACTTTGGCCCTGAGTGGCTCAGGGCCCTGTCCGGGGCGGCAGCGTGGCCT
CCCCACCCCGTCCCCTGCCATGCCAAATACAAGCTGGCTGACTACCGTTATGGGCGAGAGGAAATGCT
GGCTCTCTACGTCAAGGAGAACAAGGTCCCGAAGAGCTGCAGGACAAGGAGTTCGCCCGGTGCTGCAG
GACGAGCCACTGCAGCCCTGGCTCTGGAGCCGCTGACTGAGGAGAACAGAGAACTTCTCCCTGTCAG
TGAACAGCGTGGCTGTGCTGAGGCTGATGGGAAAGGGCTGGCCCCCCTGGCTGGCACCTCCCGAGG
CAGGGGCAGCACGCGGAGCCGAGGCCGCGCCGCTGGTGACAGCTGCTTTACAAAGAAGCATCGAAGAA
GGCGATGGGGCCTTTGGACGAAGCCCCGGGAAATCCAGCGCAGCCAGAGCTGGGATGACAGAGGCGAGA
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GGCAGCTGGAGGCTCGGAGCAGGGCCCCGGCGAGACGGCGACCGCTGGCGCTCCGCCAGCCCTGATGGTG
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TCGAGGAGGGTGTGGTGAAGAGGAGGGGGCGGGAGGGGAGGCAGCTCTACCTCGCGCGGTGCCGAGCC
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GATGATGAAGGCTTAAGCACCTGCAGCAGGAGGCGGAGAAGCTGGTGGCTCCCTGCAGGACAGCTCCT
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CCCCTCAGCCATGGGGCTGCCCGAAGTGTTCTACAAGACCCACAGGCGGAGATCCAAGGCCCTTC



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ACGACACAGGAGATGGCAGAGTGGTTCCAGGCCGGCTACTTTTCCATGTCACTGCTGGTGAAGCGGGGCT
GCGATGAGGGCTTCCAGCCGCTGGGCGAGGTGATCAAGATGTGGGGCCGCGTGCCCTTTGCCCCAGGGCC
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CACACGCTGAGCGCCACGGGCGAGCCTGGAGCTGCCATGGCTGTAGCGATCCTCAAGGAGGTGGAATCCC
CCTATGATGTCCACGATTATATCCGTTCTGCCTGGGGGACACGCTGGAAGCCAAAGAATTTGCCAAACA
ATTCTGGAGCGGAGGGCCAAGCAGAAAGCCAGCCAGCAGCGGCAGCAGCAGCAGGAGGCATGGCTGAGC
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CCAAGAGCGGGCAGTGTGCTGCACTCAGACCCAGCATCCTGGGGTACTCCCTGCACGGATCTTCTGG
TGAGATCGAGAGCGTGGATGACTAC
    
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213578 representing NM_022574
 Red=Cloning site Green=Tags(s)

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MAAETLNFGPEWLRALSGGGSVASPPSPAMPKYKLADYRYGREMLALYVKENKVPPEELQDKEFAAVLQ
DEPLQPLALEPLTEEEQRNFSLSVNSVAVLRLMGKAGPPLAGTSRGRGSTRSRGRGRGDSFCFYQRSIEE
GDGAFGRSPREIQRSQSWDRGERRFEKSARRDGAFCGFEEGAGPRKEHARSDSENWRSLSREEEEEEEE
GSWRLGAGPRRDGDRWSASPDGGPRSAGWREHGERRRKFEDLRGDRGGCGEEEGRGGGSSHLRRCRA
PEGFEEDKDGLPEWCLDDEDEEMGTFDASGAFLPLKKGPKPIPEEQELDFQGLEEEEEEPSEGLEEEGPE
AGGKELTPLPPQEEKSSPSPLPTLGPLWGTNGDGETAEKEPPAAEDDIRGIQLSPGVGSSAGPPGDLE
DDEGLKHLQQAELKVASLQDSSLEEEQFTAAMQTQGLRHSAAATLPLSHGAARKWFYKDPQGEIQGPF
TTQEMAWEFQAGYFMSLLVKRGCEGFQPLGEVIKMWGRVFPAPGSPPPPLLGNDQERLKKQQLAAAL
ALYQQLQHQQFLQLVSSRQLPQCALREKAALGDLTPPPPPPPQQQQQLTAFLLQQLQALKPPRGGDQNL
PTMSRSLVSPDSGRLWDVHTSASSQSGGEASLWDIPINSSTQGPILLEQLQLQHKFQERREVELRAKREEE
ERKRREEKRRQQQEEQRRQEEEEELFRKHVRQQLLLKLLQQQAVPVPPAPSSPPPLWAGLAKQGLS
MKTLLLELQLEGERQLHKQPPPREPARAQPNHRVQLGGLGTAAPLNQWVSEAGPLWGGPDKSGGGSSGLGL
WEDTPKSGGSLVRGLGLKNSRSPSLSDSYSHLSGRPIRKKTEEEELKLLKLLQGIQPRPDGFTQWCEQML
HTLSATGSLDVPMAVAAILKEVESPYDVHDYIRSCLGDTLEAKEFAKQFLERRAKQKASQQRQQQEAWLS
SASLQTAFAQNHSTKLGPGEESKAKRRALMLHSDPSILGYSLHGSSGEIESVDDY
    
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TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_022574

ORF Size: 3105 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_022574.3](#), [NP_072096.2](#)

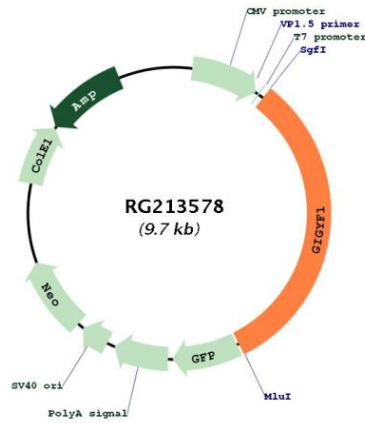
RefSeq Size: 6329 bp

RefSeq ORF: 3108 bp

Locus ID: 64599
UniProt ID: [O75420](#)
Cytogenetics: 7q22.1
Gene Summary:

This gene encodes a member of the gyf family of adaptor proteins. The encoded protein contains a gyf protein interaction domain. It binds growth factor receptor bound 10, another adaptor protein that binds activated insulin-like growth factor 1 and insulin receptors and regulates receptor signaling. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RG213578