

Product datasheet for **RG204547**

GI24 (C10orf54) (NM_022153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GI24 (C10orf54) (NM_022153) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GI24
Synonyms:	B7-H5; B7H5; C10orf54; DD1alpha; Dies1; GI24; PD-1H; PP2135; SIS1; VISTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204547 representing NM_022153 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGGCGTCCCCACGGCCCTGGAGGCCGGCAGCTGGCGCTGGGGATCCCTGCTCTTCGCTCTTCTCCTGG
 CTGCGTCCCTAGGTCCGGTGGCAGCCTTCAAGGTCGCCACGCCGTATTCCTGTATGTCTGTCCCGAGGG
 GCAGAACGTCACCCTCACCTGCAGGCTCTTGGGCCCTGTGGACAAAGGGCAGCATGTGACCTTCTACAAG
 ACGTGGTACCGCAGCTCGAGGGCGAGGTGCAGACCTGCTCAGAGCGCCGCCCATCCGCAACCTCACGT
 TCCAGGACCTTACCTGCACCATGGAGGCCACCGGCTGCCAACACCAGCCACGACCTGGCTCAGCGCCA
 CGGGCTGGAGTCGGCCTCCGACCACCATGGCAACTTCTCCATCACCATGCACAACCTGACCTGCTGGAT
 AGCGGCCCTCTACTGCTGCCTGGTGGTGGAGATCAGGCACCACTCGGAGCACAGGGTCCATGGTGCCA
 TGGAGCTGCAGGTGCAGACAGGCAAAGATGCACCATCCAATGTGTGGTGTACCCATCCTCCTCCAGGA
 GAGTGAAACATCACGGCTGCAGCCCTGGCTACGGGTGCCTGCATCGTAGGAATCCTCTGCCTCCCCCTC
 ATCCTGCTCCTGGTCTACAAGCAAAGGCAGGCAGCCTCCAACGCCGTGCCAGGAGCTGGTGCGGATGG
 ACAGCAACATTCAAGGGATTGAAAACCCCGGCTTTGAAGCCTCACCACCTGCCAGGGGATACCCGAGGC
 CAAAGTCAGGCACCCCTGTCTATGTGGCCAGCGGCAGCCTTCTGAGTCTGGCGGCATCTGCTTTCG
 GAGCCCAGCACCCCTGTCTCCTCAGGCCCGGAGACGTCTTCTCCATCCCTGGACCCTGTCCCTG
 ACTCTCAAACCTTGAGGTCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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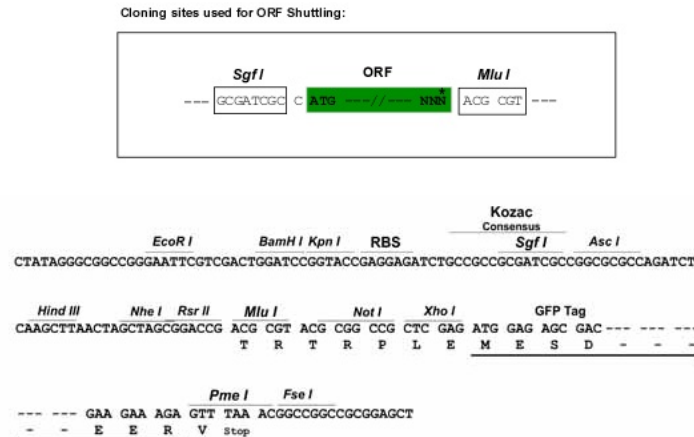
Protein Sequence: >RG204547 representing NM_022153
Red=Cloning site Green=Tags(s)

MGVPTALEAGSWRWGSLFLAFLAASLGPVAAFVATPYSLYVCPEGQNVLTLCRLGPVDKGHDVTFYK
TWYRSSRGEVQTCSERRPIRNLTFQDLHLHHGGHQAANTSHDLAQRHGLASDHHGNFSITMRNLTLDD
SGLYCCLVVEIRHHHSEHRVHGAMELQVQTGKDAPSNCVVYPSSSQESENITAAALATGACIVGILCLPL
ILLLVYKQRQAASNRAQELVRMDSNIQGIENPGFEASPPAQGIPEAKVRHPLSYVAQRQPSSEGRHLLS
EPSTPLSPPGPDVFFPSLDPVPDSPNFEVI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022153

ORF Size: 933 bp

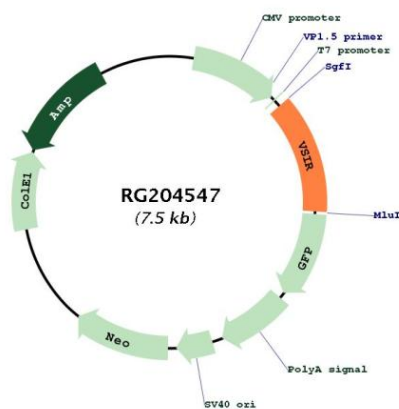
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_022153.1, NP_071436.1</u>
RefSeq Size:	4774 bp
RefSeq ORF:	936 bp
Locus ID:	64115
UniProt ID:	<u>Q9H7M9</u>
Cytogenetics:	10q22.1
Protein Families:	Transmembrane
Gene Summary:	Immunoregulatory receptor which inhibits the T-cell response (PubMed:24691993). May promote differentiation of embryonic stem cells, by inhibiting BMP4 signaling (By similarity). May stimulate MMP14-mediated MMP2 activation (PubMed:20666777).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204547