

Product datasheet for **RG219583**

IRGQ (NM_001007561) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRGQ (NM_001007561) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRGQ
Synonyms:	FKSG27; IRGQ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219583 representing NM_001007561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCCTCCGCCGAGGGTGACGTGACCGCCTTGTCTCTGGGGCCTCCGGGCTTGGGAAGTCCGCGCTGA
 TCGCAGCGCTGTGCGACAAGGATGTGGAGACGCTCGAGGCCCGGAGGACGGCCGACTCCGGGGTTCC
 CAGCCTAAGAGCTGCGGGCCAGGCCTTTTCTGGGCGAGCTGAGCTGCCACCCGACGCGCGGGGCC
 TGGGCGCGGAAGCCAACGTGCTGGTACTGGTGTGCCGGACCCGAGGGGAACGGGAACCGTTGGCTC
 CAGCCCTGGGAGAGGACGCTGGCCGCCCTGGCCGAGGACCCGCTACTGGCTGTGCGGAACCTCCG
 TCCTGGGATTACAGACTGCCGCCAGGCCCGTGATCAGACAGCAGCTCTGTGAACAGCGCGGGTTA
 GGAGCTGCGGATCTGTTGTGCTACCGGCGAAGTGGGCGAGCAGCGAGCTGCGAGGAGCTAGAGCGCC
 TCCGGGCGGCGCTGCAGAGCCAGGCAGAACGCTGCGCAGGCTCTGCCACCGGCGCAGGATGGCTTCGA
 GGTGTTGGGTGCAGCAGAGCTAGAGGCTGTGCGTGAGGCTTTGAGACCGGCGGCTTGAAGCTGCGCTG
 TCGTGGGTGCGCTCAGGCCTGGAGCGCTGGGCGAGCGACGGCTAGACCTGGCCGTGGCTGGCAAGGCTG
 ACGTGGGCCTTGTGGTGGACATGCTGCTTGGATTGGATCCTGGCGACCCAGGCGCTGCGCCTGCTTCGGT
 CCCACAGCACCCACTCCCTTCCAGCCCCAGAGCGCCCGAATGTGGTGTCTGGACCGTGCCTCTGGGC
 CACACGGGCACTGCCACCACCGCGGCCCGCCTCTACCCAACGCACTACGACGCCCTCATCTCGTCA
 CCCCTGGGGCCCCACTGAGAAGGACTGGGCCAGGTCCAGGCCTTGTGCTACCAGATGCGCCTCTTGT
 CTGCGTGCGCACAGACGGCGAGGGCGAGGATCCGGAGTGTCTGGGAGAAGGAAGATGGAGAATCCCAAG
 GGCGAGAGCTTAAGAACGCAGGTGGAGGGGATTGGAGAATGCACTCAGTAAGGAAGGGAGAAATGTA
 GCGCTGGATCGCAGAAAGCAGGCAGCGGGGAAGTCTGGGAAAGCTGGCAGCGAGGTTTGCAGCAGGT
 TGTGCGCATGAAGAAATCAGGTGGTGGCGACTCAGAGCGGGCCGCTGCGTTAAGCCCGAGGACGAGACG
 TGGGAGGTGCTGGAGGAGCGCCGCCAGTGTCCCCCTACGGCTGGCGGACTCCCAGGGCTATGCG
 AATGGCTGCGGCGAGCGCTCCCCCAGCCAGGCAGGGGCACTGCTGCTGGCGTTGCCACCAGCATCTCC
 CAGCGCTGCCGAACCAAGGCTGCGGCTTGCAGCGGGGCGTGGAGGCCAGCTCTGCTGGCTAGTCTG
 GCGGCGGCGGGGCCACTCCAGGGCTGGGCTGGGCATGCGACGTGGCACTTCTGCGGGTCACTGG
 CGGAGTGGCGACGGGCTGGGCTGGAACCCACGGCACTGGCTCGACGTGAGCGTCCCTGGGCTGGC
 TTCTGGAGAGCTGGCAGCGCGCTCATTTCCAGGCCCGGTGACGCGCGCGAGGTGGAAGCAAGACTG
 GCGCCTGGGCGGCGAGGGCACTGCTGGGGCGCAGCACTGGGGCTCTCTCTTCTGTGGCCTGCGG
 GTGGTGCAGCGGCGACAGGTGGCTGGCTACCGAGCGGCTCACGGCGTCTGCTGAGGCTCTCGATGA
 GATGCGGGCTGATGCTGAGGCTGTGCTGGCACCCCTGAGCCTGCCCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219583 representing NM_001007561
 Red=Cloning site Green=Tags(s)

MPPQGDVTALFLGPPGLGKSALIAALCDKDVETLEAPEGRPD SGVPSLRAAGPGLFLGELSCPPAAPGP
 WAAEANVLVLVLPGEENGELAPALGEAALAARGTPLLAVRNLRPGDSQTAAQARDQTAALLNSAGL
 GAADLFVL PANCGSSDGEELERLRAALQSQAELRRLPPAQDGFV LGAAELEAVREAFETGGLEAAL
 SWVRSLERLGSARLDLAVAGKADVGLVDMLLGLDPGDPGAAPASVPTAPTFFAPERPNVVLWTVPLG
 HTGTATTA AAAASHPTHYDALILVTPGAPTEKDWAQVQALLLPDAPLVCVRTDGEDEDPECLGEGKMPK
 GESLKNAGGGLENALSKGREKCSAGSQAGSGEGPGKAGSEGLQQVVMKKSGGDSERAAALSPEDT
 WEVLEEAPPPVFLRPGGLPGLCEWLRRALPPAQAGALLALPPASPSAARTKAAALRAGAWRPALLASL
 AAAAAPLPGLGWACDVALLRGQLAEWRRLGLEPTALARERERALGLASGELAARAHFPGPVTRA EEARL
 GAWAGEGTAGGAALGALSFLWPAGGAAATGGLGYRAAHGVLLQALDEMRADEAVLAPPEPAQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001007561

ORF Size: 1869 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_001007561.1](#), [NP_001007562.1](#)

RefSeq Size: 2210 bp

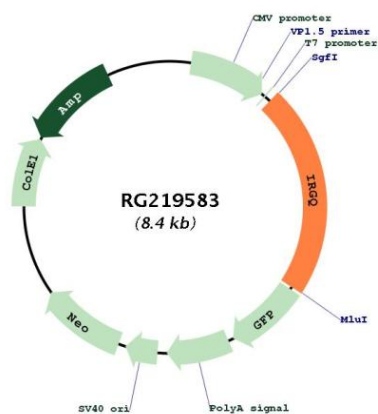
RefSeq ORF: 1872 bp

Locus ID: 126298

UniProt ID: [Q8WZA9](#)

Cytogenetics: 19q13.31

Product images:



Circular map for RG219583