

Product datasheet for SC117595

FCGRT (NM_004107) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FCGRT (NM_004107) Human Untagged Clone
Tag:	Tag Free
Symbol:	FCGRT
Synonyms:	alpha-chain; FCRN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117595 sequence for NM_004107 edited (data generated by NextGen Sequencing)

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ATGGGGTCCCAGCCCTCAGCCCTGCGGCTGGGGCTCCTGCTCTTTCTCCTTCCTGGG
AGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGCTCCTCGCCT
GCCCCGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCCGAGCAGTACCTGAGC
TACAATAGCCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACCAGGTG
TCCTGGTATTGGGAGAAAGAGACCACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAA
GCTTTCAAAGCTTTGGGGGAAAAGGTCCCTACACTCTGCAGGGCCTGCTGGGCTGTGAA
CTGGGCCCTGACAACACCTCGGTGCCACCGCCAAGTTCGCCCTGAACGGCGAGGAGTTC
ATGAATTTGACCTCAAGCAGGGCACCTGGGGTGGGACTGGCCCAGGGCCCTGGCTATC
AGTCAGCGGTGGCAGCAGCAGGACAAGGCGGCCAACAAAGGAGCTCACCTTCTGTATTC
TCCTGCCCGACCGCCTGCGGGAGCACCTGGAGAGGGGCCGCGAAACCTGGAGTGGAAG
GAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAGCCCTGGCTTTTCCGTGCTTACC
TGCAGCGCCTTCTCCTTCTACCTCCGGAGCTGCAACTTCGGTTCCTGCGGAATGGGCTG
GCCGCTGGCACCAGGCTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCTCG
TCGTACTAACAGTCAAAGTGGCGATGAGCACCCTACTGCTGCATTGTGCAGCAGCGG
GGGCTGGCGCAGCCCCTCAGGGTGGAGCTGGAATCTCCAGCCAAGTCCCGTGTCTGTG
GTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGCGGCTGTAGGAGGAGCTCTGTTG
TGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCTGGATCTCCCTTCGTGGAGACGACCC
GGGGTCCCTGCCCACCCAGGGGAGGCCAGGATGCTGATTTGAAGGATGTAATGTG
ATTCCAGCCACCGCTGA

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Clone variation with respect to NM_004107.4



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004107 unedited
 NTTGTTCGAATTTTGGTATACGACTCACTATAGGGCGGCCGCGAATCGGCACGAGCCGC
 AGGCAGGAAGGGAGCGAGGCTGAAGGGAACGTCGTCCTCTCAGCATGGGGTCCCCGCGC
 CTCAGCCCTGGGCGCTGGGGCTCCTGCTCTTTCTCTTCTGGGAGCCTGGGCGCAGAAA
 GCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTCCTCGCCTGCCCGGGGACTCCTG
 CCTTCTGGGTGTCCGGCTGGCTGGGCCCCGAGCAGTACCTGAGCTACAATAGCCTGCGGG
 GCGAGCCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACCAAGTGTCTGTTATTGGGAGA
 AAGAGACCACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGG
 GGGAAAAGTCCCTACACTCTGCAGGGCTGCTGGGCTGTGAACTGGGCCCTGACACAC
 CTCCTCGTGGCCACCGCAAGTTCGCCCTGAACGCGCAGGAGTTCATGAATTTGACCT
 CAAGCAGGGCCCTGGGGTGGGGACTGCCCGAGGCCCTGGTATCAGTCAGCGGTGGCA
 GCAGCAGGACAAGGCGGCCAACAAAGGAGCTCACCTTCTGCTATTCTCTGCCCGACCG
 CCTGCGGGAGCACCTGGAAGAGGGGCCCGCGGAACCTGGAGTGGAAAGGAGCCCTT
 CCATGCGCCTGAAGGCCGACCCAGCAGCCCTGGCTTTTTCCGTGCTTACCTGCAGCGCC
 TTCTCCTTCTACCCTNCGGAGCTGCACTTTCGGGTCTGCGGAATGGGCTGGCCGTGCA
 CCGGCCAGGGGACTTCGGCCCCACGGGGACGGTCTTCCCGCTTCTGTCGCCCTAACGTCA
 AAGCGGCCGAGATCCCCCTCTGCTGCATTGGCCCCAGGGGGCTTGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004107 unedited
 ATGAACCGCGGCACGCAATCTAGTAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTT
 TT
 GTTTTTTTTTGGGGGGAAAAACCCCTTTTTTTTTTAGGGGGGAAATTGGGGCAAACCA
 CAGGACGGGGCTCAAAGGGAGAAAAATTAGCCCAAACCCCTTTTGGAGGCTAAAAAA
 TCCCAGGTTCCAAAAGTCTAAAAAAGGGGCTGACTACTTTCTTTTTTAACA
 ACCAAAATGGCGGATGGCCAGGCGGGGGCGAAATCAAATTTACTTCTTAAAAA
 TCCGGGCCCCCCCTGGGGGGGAGAAAAACCCGGGGTCTCCCCAAAAGGGAAAC
 CAAGGGGTGGAACCCATTCTTTTTTTTTTCAAAAAAATTCCTCCTAAAGCCCT
 GCCGGGATTAACAAAACCCGTAAACAATCCCCCCCCAACCCGGAGGATTGGGCTGGA
 AATTCACCTCCACCTGAGGGGCTGCCCAACCCCGGTGTTGAAAAATGAAAAAGTAG
 GGGGCTCATCCCCCTTTAACTGTAAGGACAACAAGGCGGAAAGGACCCGCCCTTG
 GGGGGCCAAATTCACCTTGGCGGGCCAGGGGCCACCCATTCCGAAGAACCAATTT
 CCCCTCCGAAGGAAAAAAGAAAAGGCCCTCCAGGTAACCCGAAAAAACCAGGCTGTTGG
 GTCGGCCCTAAGGCACATGGAGGGGCCTCCTCCATCAAGGTTCCGGGCCCTTCAAAG
 GCTCCCCGGGCGGGGGAGAAAATACAGAAGGGGCTTTTTGCCCTTTTCTTTTTTC
 CCCCTTAATAAACAGGCTGGGCAACCCCCCAGGGCCGTGTTAGGGGAATTTAG

Restriction Sites:

NotI-NotI

ACCN:

NM_004107

Insert Size:

1410 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](#)

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_004107.3](#), [NP_004098.1](#)

RefSeq Size: 1510 bp

RefSeq ORF: 1098 bp

Locus ID: 2217

UniProt ID: [P55899](#)

Cytogenetics: 19q13.33

Domains: MHC_I, IGc1

Protein Families: Transmembrane

Gene Summary: This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. The encoded protein transfers immunoglobulin G antibodies from mother to fetus across the placenta. This protein also binds immunoglobulin G to protect the antibody from degradation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]

Transcript Variant: This variant (2) has an alternate 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.