

Product datasheet for RC200364

FCGRT (NM_004107) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FCGRT (NM_004107) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FCGRT
Synonyms:	alpha-chain; FCRN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200364 representing NM_004107 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTCCCAGCCCTCAGCCCTGGGCGCTGGGGCTCCTGCTCTTTCTCCTTCTGGGAGCCTGGGCG
CAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGGGTGTCTCGCCTGCCCGGGGACTCCTGCCTT
CTGGGTGCCGGCTGGTGGGCCCGCAGCAGTACCTGAGCTACAATAGCCTGCGGGGCGAGGCGGAGCCC
TGTGGAGCTTGGTCTGGGAAAACAGGTGCTGGTATTGGGAGAAAGAGACCACAGATCTGAGGATCA
AGGAGAAGCTCTTCTGGAAGCTTCAAAGCTTGGGGGAAAAGTCCCTACACTCTGCAGGGCCTGCT
GGGCTGTGAAGTGGGCCCTGACAACACCTCGGTGCCACCGCAAGTTCGCCCTGAACGGCGAGGAGTTC
ATGAATTCGACCTCAAGCAGGGCACCTGGGGTGGGACTGGCCCGAGGCCCTGGCTATCAGTCAGCGGT
GGCAGCAGCAGGACAAGGCGGCCAAAGGAGCTCACCTTCTGCTATTCTCCTGCCCGCACCGCCTGCG
GGAGCACCTGGAGAGGGCCGCGAAACCTGGAGTGGAAGGAGCCCCCTCCATGCGCCTGAAGGCCGA
CCCAGCAGCCCTGGCTTTCCGTGCTTACCTGCAGCGCTTCTCCTTCTACCTCCGGAGCTGCAACTTC
GGTTCCTGCGAATGGGCTGGCCGCTGGCACCGGCCAGGTGACTTCGGCCCCAAGTACCGGATCCTT
CCACGCCCTCGTCGCTCACTAACAGTCAAAGTGGCGATGAGCACCCTACTGCTGATTGTGCAGCACGG
GGGCTGGCGCAGCCCCCAGGGTGGAGTGGAATCTCCAGCAAGTCTCCGTCGTCGTTGGGAATCG
TCATCGGTGCTTGTACTCACGGCAGCGGCTGTAGGAGGACTCTGTTGTGGAGAAGGATGAGGAGTGG
GCTGCCAGCCCCCTGGATCTCCCTTCGTGGAGACGACCCGGGGTCTCCTGCCACCCAGGGGAGGCC
CAGGATGCTGATTTGAAGGATGTAATGTATTCCAGCCACCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC200364 representing NM_004107
Red=Cloning site Green=Tags(s)

MGVPRPQPWALGLLLFLLPGLGAESHL SLL YHL TAVSSPAPGTPAFWVSGWLGPPQYLSYNSLRGEAEP
 CGAWVWENQVSWYWEKET TDLRIKEKL FLEAFKALGGKGPYTLQGLLGCELGPDNTSVPTAKFALNGEEF
 MNFDLKQGTWGGDWPEALAI SQRWQQQDKAANKEL TFLLF SCPHRLREHLERGRGNLEWKEPPSMRLKAR
 PSSPGF SVLTCSAF SFYPPELQLRFLRNLGAAGTGQDFGPNSDGSFHASSSLTVKSGDEHHYCCIVQHA
 GLAQLRVELESPAKSSVLVVGIVIGVLLLLTAAAVGGALLWRRMRSGLPAPWISLRGGDDTGVL LPTPGEA
 QDADLKDVNVIPATA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2565_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004107

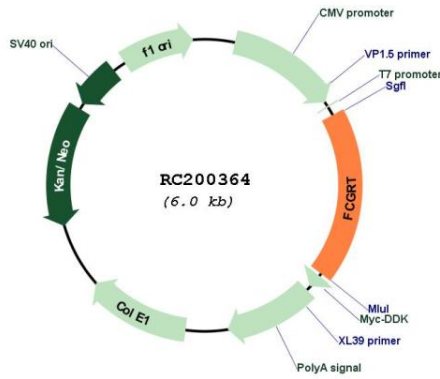
ORF Size: 1095 bp

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.

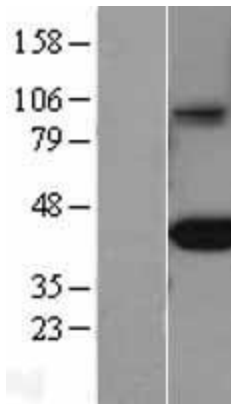
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004107.5
RefSeq Size:	1510 bp
RefSeq ORF:	1098 bp
Locus ID:	2217
UniProt ID:	P55899
Cytogenetics:	19q13.33
Domains:	MHC_I, IGc1
Protein Families:	Transmembrane
MW:	39.6 kDa
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]

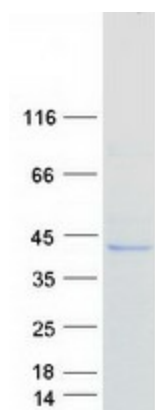
Product images:



Circular map for RC200364



Western blot validation of overexpression lysate (Cat# [LY427768]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227329] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FCGRT protein (Cat# [TP300364]). The protein was produced from HEK293T cells transfected with FCGRT cDNA clone (Cat# RC200364) using MegaTran 2.0 (Cat# [TT210002]).