

Product datasheet for RC206429

CD16 (FCGR3A) (NM_000569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD16 (FCGR3A) (NM_000569) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD16
Synonyms:	CD16; CD16A; FCG3; FCGR3; FCGRIII; FCR-10; FCRIII; FCRIIIA; IGFR3; IMD20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC206429 representing NM_000569 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGTGGAGGGGCTGGGGAAAGGCTGTTTACTTCCTCCTGTCTAGTCGGTTTGGTCCCTTTAGGGCTCC GGATATCTTTGGTGACTTGTCCTCTCCAGTGTGGCATCATGTGGCAGCTGCTCCTCCCAACTGCTCTGCT ACTTCTAGTTTCAGCTGGCATGCGGACTGAAGATCTCCCAAAGGCTGTGGTGTTCCTGGAGCCTCAATGG TACAGGGTGCTCGAGAAGGACAGTGTGACTCTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCA CACAGTGGTTTCACAATGAGAGCCTCATCTCAAGCCAGGCCTCGAGCTACTTCATTGACGCTGCCACAGT CGACGACAGTGGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTC CATATCGGCTGGCTGTTGCTCCAGGCCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATTCACCTGAGGT

GTCACAGCTGGAAGAACACTGCTCTGCATAAGGTCACATATTTACAGAATGGCAAAGGCAGGAAGTATTT TCATCATAATTCTGACTTCTACATTCCAAAAGCCACACTCAAAGACAGCGGCTCCTACTTCTGCAGGGGG CTTGTTGGGAGTAAAAATGTGTCTTCAGAGACTGTGAACATCACCATCACTCAAGGTTTGGCAGTGTCAA CCATCTCATCATTCTTTCCACCTGGGTACCAAGTCTCTTTCTGGTGATGGTACTCCTTTTTGCAGT GGACACAGGACTATATTTCTCTGTGAAGACAAACATTCGAAGCTCAACAAGAGACTGGAAGGACCATAAA

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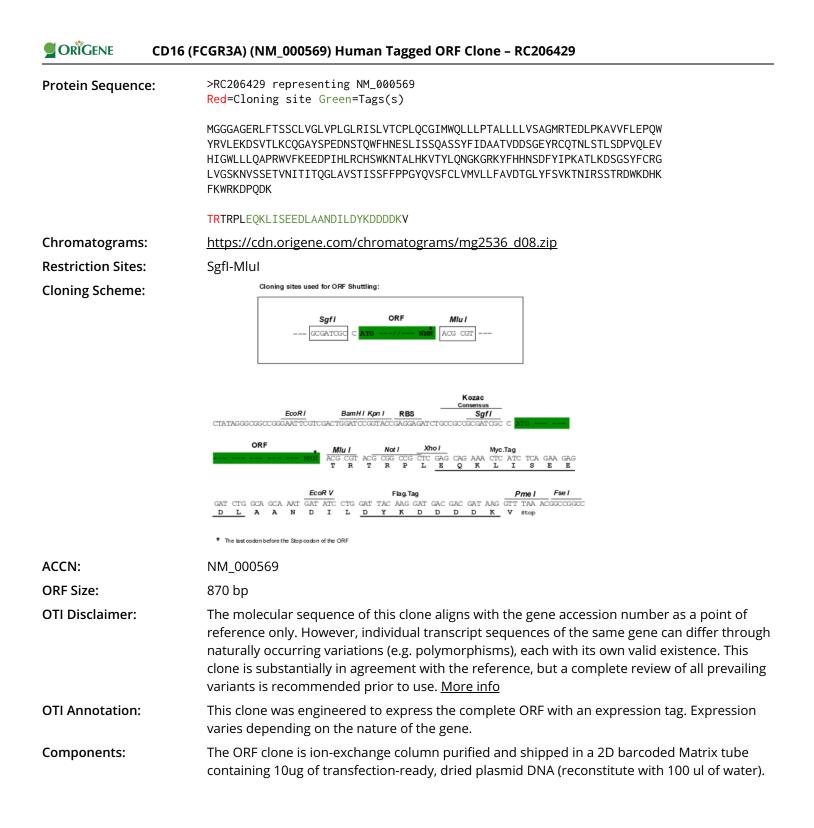
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TTTAAATGGAGAAAGGACCCTCAAGACAAA

ACAAGGATGACGACGATAAGGTTTAA

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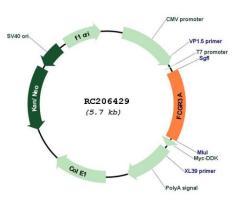
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ORIGENE CD16 (F	FCGR3A) (NM_000569) Human Tagged ORF Clone – RC206429
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 000569.4</u>
RefSeq Size:	2406 bp
RefSeq ORF:	765 bp
Locus ID:	2214
UniProt ID:	<u>P08637</u>
Cytogenetics:	1q23.3
Domains:	ig, IG
Protein Families:	ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways:	Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, Systemic lupus erythematosus
MW:	32.64 kDa
Gene Summary:	This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene are associated with immunodeficiency 20, and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2020]

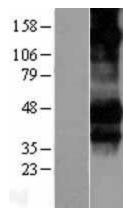
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Product images:

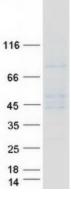


Circular map for RC206429



Western blot validation of overexpression lysate (Cat# [LY400194]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206429 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified FCGR3A protein (Cat# [TP306429]). The protein was produced from HEK293T cells transfected with FCGR3A cDNA clone (Cat# RC206429) using MegaTran 2.0 (Cat# [TT210002]).

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