

Product datasheet for **RG229806**

CD244 (NM_001166664) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD244 (NM_001166664) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD244
Synonyms:	2B4; NAIL; NKR2B4; Nmrk; SLAMF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229806 representing NM_001166664 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGGCAAGTGGTCACCCTCATACTCCTCCTGCTCCTCAAGGTGTATCAGGGCAAAGGATGCCAGG
GATCAGCTGACCATGTGGTTAGCATCTCGGAGTGCCTCTTCAGTTACAACCAAACAGCATAACAGACGAA
GGTTGACAGCATTGCATGGAAGAAGTTGCTGCCCTCACAAAATGGATTTTCATCACATATTGAAGTGGGAG
AATGGCTCTTTGCCTTCCAATACTTCCAATGATAGATTCAGTTTTATAGTCAAGAACTTGAGTCTTCTCA
TCAAGGCAGCTCAGCAGCAGGACAGTGGCCTCTACTGCCTGGAGGTCACCAGTATATCTGGAAAAGTTCA
GACAGCCACGTTCCAGGTTTTGTATTTGAATTCAGATTTTGGCCGTTTTTGGTGATCATCGTGATTCTA
AGCGCACTGTTCCCTTGGCACCCCTTGCTGCTTCTGTGTGGAGGAGAAAAGAGGAAGGAGAAGCAGTCAG
AGACCAGTCCCAAGGAATTTTTGACAATTTACGAAGATGTCAAGGATCTGAAAACCAGGAGAAATCACGA
GCAGGAGCAGACTTTTCTGGAGGGGGAGCACCATCTACTCTATGATCCAGTCCAGTCTTCTGTCTCC
ACGTCACAAGAACCTGCATATACATTATTTTCAATTAATTCAGCCTTCCAGGAAGTCTGGATCCAGGAAGA
GGAACCACAGCCCTTCTTCAATAGCACTATCTATGAAGTGATTGGAAAGAGTCAACCTAAAGCCAGAA
CCCTGCTCGATTGAGCCGCAAAGAGCTGGAGAAGTTGATGTTTATTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229806 representing NM_001166664
 Red=Cloning site Green=Tags(s)

MLGQVVTLLLLLLLVYQKGCQGSADHVVSISGVPLQLQPNSIQTKVDSIAWKLLPSQNGFHHILKWE
 NGLSPNNTSNDRF SFIVKNLSLLIKAAQQD SGLYCLEVTSISGKVQTATFQVVFVFFRFPFLVIVIL
 SALFLGLTACFCVWRRKRKEKQSETSPKEFLTIYEDVKDLKTRRNHEQEQTFFGGGSTIYSMIQSQSSAP
 TSQEPAYTLYSLIQPSRKSGSRKRNHSPSFNSTIYEVIGKSQPKAQNPARLSRKELENFDVYS

TRTRPLE - GFP Tag - V

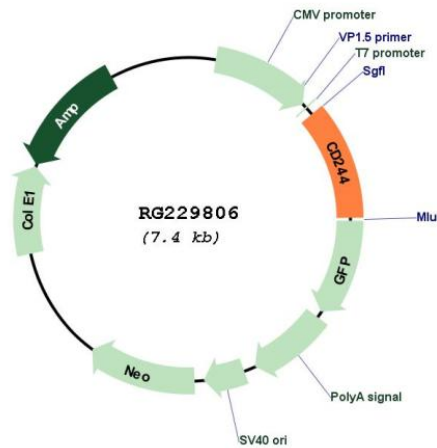
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001166664

ORF Size: 819 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:	<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.
RefSeq:	NM_001166664.2
RefSeq Size:	2252 bp
RefSeq ORF:	822 bp
Locus ID:	51744
UniProt ID:	Q9BZW8
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Natural killer cell mediated cytotoxicity
Gene Summary:	This gene encodes a cell surface receptor expressed on natural killer (NK) cells (and some T cells) that mediate non-major histocompatibility complex (MHC) restricted killing. The interaction between NK-cell and target cells via this receptor is thought to modulate NK-cell cytolytic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]