

Datasheet for ABIN4938216

## Human KIR2DS3 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	KIR2DS3
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PExp)

### Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human KIR2DS3 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	915 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGTCGCTCA TGGTCATCAG CATGGCATGT GTTGGGTTCT TCTGGCTGCA GGGGGCCTGG CCACATGAGG GATTCCGCAG AAAACCTTCC CTCCTGGCCC ACCCAGGTCTG CCTGGTGAAA TCAGAAGAGA CAGTCATCCT GCAATGTTGG TCAGATGTCA TGTTTGAGCA CTTCTTCTG CACAGAGAGG GGACGTTTAA CGACACTTTG CGCCTCATTG GAGAGCACAT TGATGGGGTC TCCAAGGCCA ACTTCTCCAT CGGTGCGCATG AGGCAAGACC TGGCAGGGAC CTACAGATGC

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## Product Details

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TACGGTTCTG TTCCTCACTC CCCCTATCAG TTTTCAGCTC CCAGTGACCC TCTGGACATC  
GTGATCACAG GTCTATATGA GAAACCTTCT CTCTCAGCCC AGCCGGGCCC CACGGTTCTG  
GCAGGAGAGA GCGTGACCTT GTCCTGCAGC TCCTGGAGCT CCTATGACAT GTACCATCTA  
TCCACGGAGG GGGAGGCCCA TGAACGTAGG TTCTCTGCAG GGCCCAAGGT CAACGGAACA  
TTCCAGGCCG ACTTTCCTCT GGGCCCTGCC ACCCAAGGAG GAACCTACAG ATGCTTCGGC  
TCTTTCCATG ACTCTCCCTA CGAGTGGTCA AAGTCAAGTG ACCCACTGCT TGTTTCTGTC  
ACAGGAAACC CTTCAAATAG TTGGCCTTCA CCCACTGAAC CAAGCTCCAA AACCGGTAAC  
CCCAGACACC TACACGTTCT GATTGGGACC TCAGTGGTCA AACTCCCTTT CACCATCCTC  
CTCTTCTTTC TCCTTCATCG CTGGTGCTCC GACAAAAAAA ATGCATCTGT AATGGACCAA  
GGGCCTGCGG GGAACAGAAC AGTGAACAGG GAGGATTCTG ACGAACAGGA CCATCAGGAG  
GTGTCATACG CATAA

Specificity:	ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology
Characteristics:	Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.
Sequencing Primer:	<ul style="list-style-type: none"><li>• Forward primer: 5'-TAATACGACTCACTATAGGG-3'</li><li>• Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'</li></ul>
Grade:	End-sequenced
Components:	The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

## Target Details

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Gene:	KIR2DS3
Alternative Name:	KIR2DS3 ( <a href="#">KIR2DS3 Products</a> )
Background:	Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several 'framework' genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic

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domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules, thus, KIR proteins are thought to play an important role in regulation of the immune response. [provided by RefSeq, Jul 2008].

Gene ID: 3808

NCBI Accession: [NM\\_012313](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)