

Datasheet for ABIN4928139

Human KIR2DS5 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	KIR2DS5
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 KIR2DS5 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 CATGGCGTGT GTTGC GTTCT TCTTGCTGCA GGGGGCCTGG CCACATGAGG GATTCCGCAG AAAACCTTCC CTCCTGGCCC ACCCAGGTCC CCTGGTGAAA TCAGAAGAGA CAGTCATCCT GCAATGTTGG TCAGATGTCA TGTTTGAGCA CTTCCTTCTG CACAGAGAGG GGACGTTTAA CCACACTTTG CGCCTCATTG GAGAGCACAT TGATGGGGTC TCCAAGGGCA ACTTCTCCAT CGGTGCGCATG ACACAAGACC TGCCAGGGAC CTACAGATGC

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Product Details

TACGGTTCTG TTACTCACTC CCCCTATCAG TTGTCAGCGC CCAGTGACCC TCTGGACATC
GTGATCACAG GTCTATATGA GAAACCTTCT CTCTCAGCCC AGCCGGGCCC CACGGTTCTG
GCAGGAGAGA GCGTGACCTT GTCCTGCAGC TCCCGGAGCT CCTATGACAT GTACCATCTA
TCCAGGGAAG GGGAGGCCCA TGAACGTAGG CTCCCTGCAG GGCCCAAGGT CAACAGAACA
TTCCAGGCCG ACTTTCCTCT GGACCCTGCC ACCCACGGAG GGACCTACAG ATGCTTCGGC
TCTTCCGTG ACTCTCCATA CGAGTGGTCA AAGTCAAGTG ACCCACTGCT TGTTTCTGTC
ACAGGAAACT CTTCAAATAG TTGGCCTTCA CCCACTGAAC CAAGCTCCGA AACCGGTAAC
CCCAGACACC TACACGTTCT GATTGGGACC TCAGTGGTCA AACTCCCTTT CACCATCCTC
CTCTTCTTTC TCCTTCATCG CTGGTGCTCC AACAAAAAAA ATGCATCTGT AATGGACCAA
GGGCCTGCGG GGAACAGAAC AGTGAACAGG GAGGATTCTG ATGAACAGGA 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">• Forward primer: 5'-TAATACGACTCACTATAGGG-3'• Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'
Grade:	End-sequenced
Components:	The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene:	KIR2DS5
Alternative Name:	KIR2DS5 (KIR2DS5 Products)
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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Target Details

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: 3810

NCBI Accession: [NM_014513](#)

Application Details

Restrictions: For Research Use only

Handling

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

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