

# Product datasheet for TP313617M

#### OriGene Technologies, Inc.

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## KIR2DS3 (NM\_012313) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human killer cell immunoglobulin-like receptor, two domains, short

cytoplasmic tail, 3 (KIR2DS3), 100 µg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC213617 representing NM\_012313 or AA Sequence: Red=Cloning site Green=Tags(s)

MSLMVISMACVGFFWLQGAWPHEGFRRKPSLLAHPGRLVKSEETVILQCWSDVMFEHFLLHREGTFNDTL RLIGEHIDGVSKANFSIGRMRQDLAGTYRCYGSVPHSPYQFSAPSDPLDIVITGLYEKPSLSAQPGPTVL AGESVTLSCSSWSSYDMYHLSTEGEAHERRFSAGPKVNGTFQADFPLGPATQGGTYRCFGSFHDSPYEWS KSSDPLLVSVTGNPSNSWPSPTEPSSKTGNPRHLHVLIGTSVVKLPFTILLFFLLHRWCSDKKNASVMDQ

**GPAGNRTVNREDSDEQDHQEVSYA** 

**TRTRPL**EQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 33.5 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 036445

**Locus ID:** 3808



#### KIR2DS3 (NM\_012313) Human Recombinant Protein - TP313617M

UniProt ID: <u>Q14952</u>, <u>K7QT50</u>

RefSeq Size: 1113

Cytogenetics: 19q13.4

**RefSeq ORF:** 912

Synonyms: NKAT7

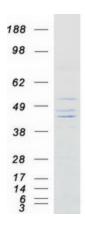
Summary: Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed

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 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]

**Protein Families:** Transmembrane

**Protein Pathways:** Antigen processing and presentation, Natural killer cell mediated cytotoxicity

## **Product images:**



Coomassie blue staining of purified KIR2DS3 protein (Cat# [TP313617]). The protein was produced from HEK293T cells transfected with KIR2DS3 cDNA clone (Cat# [RC213617]) using MegaTran 2.0 (Cat# [TT210002]).