

Datasheet for ABIN3390437

## Human KIR2DL2 cDNA Clone in Mammalian Expression Vector

### Overview

Quantity:	10 µg
Gene:	KIR2DL2
Species:	Human
Insert:	cDNA
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

### Product Details

Purpose:	Untagged full-length cDNA clone from Human KIR2DL2 is ideal for over-expression of native protein for functional studies.
Brand:	TrueClones®
Insert Length:	1000 bp
Vector Backbone:	pCMV6-XL5
Promoter:	Enhanced CMV Promoter, T7 Promoter
Bacterial Resistance:	Ampicillin
Expression Type:	Transient
Characteristics:	<ul style="list-style-type: none"> <li>• These cDNA clones are isolated from full-length cDNA libraries and usually contain the coding sequence as well as the untranslated regions (UTRs) of the mRNA transcript appropriate to the library from which they were isolated.</li> <li>• These cDNA clones are ideal for over-expression of native proteins for functional studies. Provided as 10 µg transfection-ready plasmids.</li> <li>• Every lot of primer is tested to provide clean sequencing of cDNA clones.</li> </ul>
Purification:	The DNAs were purified using PowerPrep HP Plasmid isolation kits for transfection ready plasmids.

Order at [www.genomics-online.com](http://www.genomics-online.com)

USA & Canada: +1 877 302 8632 | [support@antibodies-online.com](mailto:support@antibodies-online.com)

## Product Details

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Sequencing Primer: VP1.5 (forward) 5'GGACTTTCCAAAATGTTCG 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'

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Components:

- The cDNA clone is shipped in a 2-D bar-coded Matrix tube as dried plasmid DNA.
- The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

## Target Details

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Gene: KIR2DL2

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Alternative Name: KIR2DL2 ([KIR2DL2 Products](#))

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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 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].

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NCBI Accession: [NM\\_014219](#), [NP\\_055034](#)

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## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Storage: RT, -20 °C

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Storage Comment: The lyophilized plasmid is stable for up to one year when stored at ambient temperature. Following dissolution in 100 µL dH<sub>2</sub>O, store at -20 °C. Lyophilized primers are stable for up to

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## Handling

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Expiry Date: 12 months

## Publications

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Product cited in: Brozzetti, Alimohammadi, Morelli, Minarelli, Hallgren, Giordano, De Bellis, Perniola, Kämpe, Falorni: "Autoantibody response against NALP5/MATER in primary ovarian insufficiency and in autoimmune Addison's disease." in: **The Journal of clinical endocrinology and metabolism**, Vol. 100, Issue 5, pp. 1941-8, (2015) ([PubMed](#)).

Alimohammadi, Björklund, Hallgren, Pöntynen, Szinnai, Shikama, Keller, Ekwall, Kinkel, Husebye, Gustafsson, Rorsman, Peltonen, Betterle, Perheentupa, Akerström, Westin, Scott, Holländer, Kämpe: "Autoimmune polyendocrine syndrome type 1 and NALP5, a parathyroid autoantigen." in: **The New England journal of medicine**, Vol. 358, Issue 10, pp. 1018-28, (2008) ([PubMed](#)).