

Specifications:

Gene:	hErbB2
Accession:	NP_001005862
Insert size:	3691bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

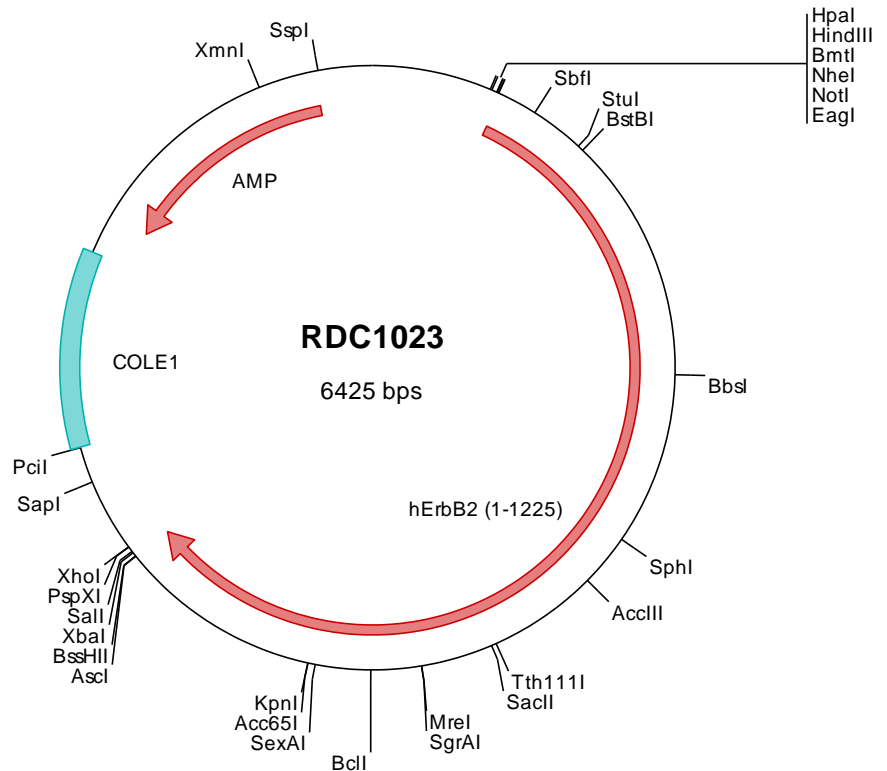
hErbB2 cDNA Plasmid

ERBB2 v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 [*Homo sapiens* (human)]

Also known as: NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu

Summary:

ErbB2 is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. It has no ligand binding domain of its own. It binds to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signaling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Overexpression of ErbB2 has been reported in numerous cancers, including breast and ovarian tumors. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC1023 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaacc tetgacacat gcaagctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagccc
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201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcgac ggtgcgggcc tcttcgctat
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> RDC1023 Translated Insert Sequence

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201  lptdccheqc aagctgpkhs dclaclhfnh sgicelhcpa lvtyntdtfe smpnpegryt fgascvtacp ynylstdvgs ctlvcplhnq evtaedgtqr
301  cekcskpcar vcyglgmehl revravtsan iqefagckki fgslafupes fdgdpasnta plqpeqlqvf etleeitgyl yisawpdsip dlsvfqnlqv
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