

## Product datasheet for **TP312583**

### Her2 (ERBB2) (NM\_004448) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) (ERBB2), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T



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**Expression cDNA Clone or AA Sequence:** >RC212583 representing NM\_004448  
Red=Cloning site Green=Tags(s)

MELAALCRWGLLLALLPPGAASTQVCTGDMKLRLPASPETHLDMLRHLYQGCQVWQGNLELTYLPTNAS  
 LSFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLREL  
 QLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSE  
 DCQSLTRTVACAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFE  
 SMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHL  
 REVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSL  
 DLSVFQNLQVIRGRILHNGAYSLTLQGLISWLGLRSLRELGSGLALIHHTHLCFVHTVPWDQLFRNPH  
 QALLHTANRPEDECVGEGLACHQLCARGHCWGPPTQCVNCSQFLRGQECVEECRVLQGLPREYVNH  
 HC  
 LPCHPECQPQNGSVTCFGLDQCVACAHYKDPFVARCPSGVKPDLSYMPIWKFPDEEGACQPCPIN  
 C  
 THSCVDLDDKGCPAEQRASPLTSIISAVVGILLVWVVGWVFGILIKRRQQKIRKYTMRRLLQETELVEPL  
 TPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPVAIKVLRNTSPKANKEILDE  
 AYYMAGVGSPPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSQDLLNWCMIKAGMSYLEDV  
 R  
 LVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPKIKWMALESILRRRFTHQSDVWSYGV  
 TVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMIDSECRPRFRELVSEFSRMA  
 RDPQRFVVIQNEDLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPPQGGFFCPDPAGAGGMVHHRHS  
 S  
 STRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAKGLQSLPTHDPSPQLQRYSEDPTVPL  
 PSETDGYVAPLTCSPQPEYVNQPDVVRQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDVFVAFGGA  
 VENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 137.7 kDa

**Concentration:** >0.1 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

**Bioactivity:** ELISA capture for autoantibodies (PMID: [27323861](#))  
 ELISA capture for autoantibodies (PMID: [27793776](#))

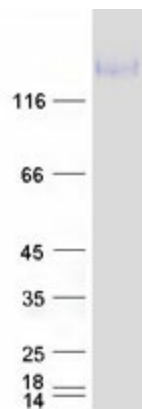
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**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.

<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004439</a>
<b>Locus ID:</b>	2064
<b>UniProt ID:</b>	<a href="#">P04626</a>
<b>RefSeq Size:</b>	4624
<b>Cytogenetics:</b>	17q12
<b>RefSeq ORF:</b>	3765
<b>Synonyms:</b>	CD340; HER-2; HER-2/neu; HER2; MLN 19; NEU; NGL; TKR1
<b>Summary:</b>	This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, Bladder cancer, Calcium signaling pathway, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer

### Product images:



Coomassie blue staining of purified ERBB2 protein (Cat# TP312583). The protein was produced from HEK293T cells transfected with ERBB2 cDNA clone (Cat# [RC212583]) using MegaTran 2.0 (Cat# [TT210002]).