

Product datasheet for **RC239056**

Her2 (ERBB2) (NM_001289938) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Her2 (ERBB2) (NM_001289938) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Her2
Synonyms:	CD340; HER-2; HER-2/neu; HER2; MLN 19; NEU; NGL; TKR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC239056 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCTGCGGCTCCCTGCCAGTCCCAGACCCACCTGGACATGCTCCGCCACCTCTACCAGGGCTGCC
 AGGTGGTGCAGGGAAACCTGGAACCTCACCTACCTGCCACCAATGCCAGCCTGTCCTTCCTGCAGGATAT
 CCAGGAGGTGCAGGGCTACGTGCTCATCGCTCACAAACCAAGTGAGGCAGGTCCCCTGCAGAGGCTGCGG
 ATTGTGCGAGGCACCCAGCTCTTTGAGGACAACCTATGCCCTGGCCGTGCTAGACAATGGAGACCCGCTGA
 ACAATACCACCCCTGTCACAGGGGCTCCCCAGGAGGCTGCGGGAGCTGCAGCTTGAAGCCTCACAGA
 GATCTTGAAGGAGGGTCTTGATCCAGCGGAACCCAGCTCTGCTACCAGGACACGATTTTGTGGAAG
 GACATCTCCACAAGAACAACAGCTGGCTCTCACACTGATAGACCAACCGCTCTCGGGCTGCCACC
 CCTGTTCTCCGATGTGTAAGGGCTCCCGCTGCTGGGAGAGAGTTCTGAGGATTGTGAGCCTGACGCG
 CACTGTCTGTGCCGGTGGCTGTGCCCGTGAAGGGGCACTGCCACTGACTGCTGCCATGAGCAGTGT
 GCTGCCGGCTGCACGGGCCCCAAGCACTGACTGCCTGGCTGCCTCCACTTCAACCACAGTGGCATCT
 GTGAGCTGCACTGCCAGCCCTGGTCACCTACAACACAGACACGTTTGAGTCCATGCCAATCCCGAGGG
 CCGGTATACATTCGGCGCCAGCTGTGTGACTGCCTGTCCCTACAACCTACCTTTCTACGGAGCTGGGATCC
 TGCACCCTCGTCTGCCCCCTGCACAACCAAGAGGTGACAGCAGAGGATGGAACACAGCGGTGTGAGAAGT
 GCAGCAAGCCCTGTGCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTGCAGAGGTGAGGGCAGTTAC
 CAGTGCCAATATCCAGGAGTTTGTGGCTGCAAGAAGATCTTTGGGAGCCTGGCATTCTGCCGGAGAGC
 TTTGATGGGACCCAGCCTCCAACACTGCCCGCTCCAGCCAGAGCAGCTCCAAGTGTGTTGAGACTTGG
 AAGAGATCACAGTTTACCTATACATCTCAGCATGGCCGGACAGCCTGCCAGCTCAGCTCAGCTTCCAGAA
 CCTGCAAGTAATCCGGGGACGAATTCTGCAACAATGGCGCCTACTCGCTGACCCCTGCAAGGGCTGGGCATC
 AGCTGGCTGGGGCTGCGCTCACTGAGGGAAGTGGCAGTGGACTGGCCCTCATCCACCAACACCCACC
 TCTGCTTCTGTCACACGGTGCCTGGGACCAGCTCTTTCGGAACCCGCACCAAGCTCTGCTCCACTGC
 CAACCGGCCAGAGGACGAGTGTGTGGCGAGGGCTGGCTGCCACCAGCTGTGCCCGGAGGGCACTGC
 TGGGGTCCAGGGCCACCCAGTGTGCACTGCAGCCAGTTCTTTCGGGGCCAGGAGTGCCTGGAGGAAT
 GCCGAGTACTGCAGGGGCTCCCCAGGAGTATGTGAATGCCAGGCACTGTTTGGCGTCCACCCTGAGTG
 TCAGCCCCAGAATGGCTCAGTACCTGTTTGGACCGAGGCTGACCAGTGTGTGGCCTGTGCCACTAT
 AAGGACCTCCCTTCTGCGTGGCCCGCTGCCCCAGCGGTGTGAAACCTGACCTCTCTACATGCCATCT
 GGAAGTTCCAGATGAGGAGGGCGCATGCCAGCCTTGCCCATCAACTGCACCCACTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239056 protein sequence
 Red=Cloning site Green=Tags(s)

MKLRLPASPETHLDMLRHL YQGCQVVQGNLELTYLPTNASLSFLQDIQEVQGYVLI AHNQVRQVPLQRLR
 IVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWK
 DIFHKNNQLAL TLIDTNRSRACHPCSPMCKGSRWGESSEDCQSLTRTV CAGGCARCKGPLPTDCCHEQC
 AAGCTGPKHSDCLACLHFNHSGICELHCPALVYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGS
 CTLVCP LHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANI QEFAGCKKIFGSLAFLPES
 FDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSL PDL SVFQNLQVIRGRILHNGAYSLTLQGLGI
 SWLGLRSLRELGSLAL IHHNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHC
 WGPPTQCVNCSQFLRGQECVVEECRVLQGLPREYV NARHCLPCHPECPQNGSVTCFGPEADQCVACAHY
 KDPPFCVARCP SGVKPDL SYMPIWKFPDEEGACQPCPINCTHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001289938

ORF Size: 1809 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001289938.2](#)

RefSeq Size: 2590 bp

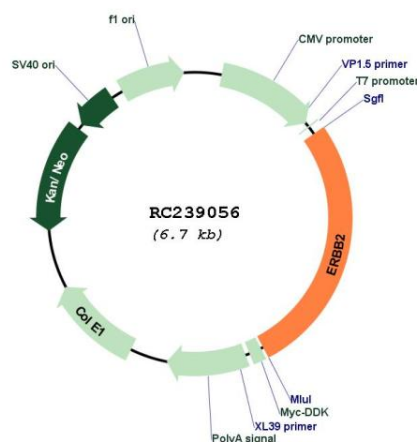
RefSeq ORF: 1812 bp

Locus ID: 2064

UniProt ID: [P04626](#)

Cytogenetics:	17q12
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	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
MW:	66.5 kDa
Gene Summary:	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]

Product images:



Circular map for RC239056