

Product datasheet for **MR210207L4V**

ErbB2 (BC046811) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ErbB2 (BC046811) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	ErbB2
Synonyms:	Neu, HER-2, c-erbB2, HER2, c-neu, mKIAA3023
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	BC046811
ORF Size:	2133 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR210207).
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.
RefSeq:	BC046811 , AAH46811
RefSeq Size:	4694 bp
RefSeq ORF:	2135 bp
Locus ID:	13866
Cytogenetics:	11 D



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Gene Summary:

Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization (By similarity).[UniProtKB/Swiss-Prot Function]