

Product datasheet for MR209803L4V

Egfr (NM_007912) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles Product Name: Egfr (NM_007912) Mouse Tagged ORF Clone Lentiviral Particle Symbol: Egfr 9030024[15Rik; AI552599; Erbb; Errb1; Errp; wa-2; wa2; Wa5 Synonyms: **Mammalian Cell** Puromycin Selection: Vector: pLenti-C-mGFP-P2A-Puro (PS100093) mGFP Tag: NM 007912 ACCN: ORF Size: 1965 bp The ORF insert of this clone is exactly the same as(MR209803). **ORF** Nucleotide Sequence: The molecular sequence of this clone aligns with the gene accession number as a point of **OTI Disclaimer:** 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:** NM 007912.4, NP 031938.1 **RefSeq Size:** 2678 bp **RefSeq ORF:** 1968 bp Locus ID: 13649 Cytogenetics: 11 9.41 cM



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Gene Summary:Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling
cascades to convert extracellular cues into appropriate cellular responses (PubMed:8404850).
Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin,
epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo-
and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The
phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex
downstream signaling cascades. Activates at least 4 major downstream signaling cascades
including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May
also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins
like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to
the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its
interaction with SRC and CTNNB1/beta-catenin (By similarity). Plays a role in enhancing
learning and memory performance (PubMed:20639532).[UniProtKB/Swiss-Prot Function]

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