

# Product datasheet for MR227303L3

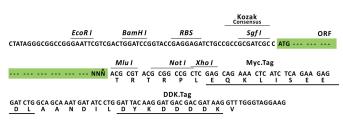
## Gabra1 (NM\_010250) Mouse Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids	
Product Name:	Gabra1 (NM_010250) Mouse Tagged Lenti ORF Clone	
Tag:	Myc-DDK	
Symbol:	Gabra1	
Synonyms:	GABAA-alpha1; GABAAR-alpha1; Gabra-1	
Mammalian Cell Selection:	Puromycin	
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)	
E. coli Selection:	Chloramphenicol (34 ug/mL)	
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR227303).	
<b>Restriction Sites:</b>	Sgfl-Mlul	
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf 1 ORF Mlu 1 GCG ATC GC C ATG NNN ACG CGT	

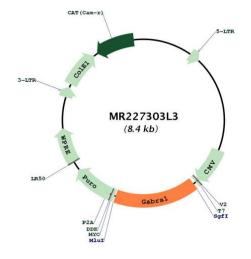


\* The last codon before the Stop codon of the ORF.



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#### Plasmid Map:



ACCN:	NM_010250
ORF Size:	1365 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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 010250.5</u> , <u>NP 034380.1</u>
RefSeq Size:	4702 bp
RefSeq ORF:	1368 bp

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	Gabra1 (NM_010250) Mouse Tagged Lenti ORF Clone – MR227303L3
Locus ID:	14394
UniProt ID:	<u>P62812</u>
Cytogenetics:	11 24.97 cM
Gene Summary:	Ligand-gated chloride channel which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain (PubMed:27129275). Plays an important role in the formation of functional inhibitory GABAergic synapses in addition to mediating synaptic inhibition as a GABA-gated ion channel (PubMed:27129275). The gamma2 subunit is necessary but not sufficient for a rapid formation of active synaptic contacts and the synaptogenic effect of this subunit is influenced by the type of alpha and beta subunits present in the receptor pentamer (PubMed:27129275). The alpha1/beta2/gamma2 receptor and the alpha1/beta3/gamma2 receptor exhibit synaptogenic activity (PubMed:27129275). GABRA1-mediated plasticity in the orbitofrontal cortex regulates context-dependent action selection (PubMed:25348603). Functions also as histamine receptor and mediates cellular responses to histamine (By similarity).[UniProtKB/Swiss-Prot Function]

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