

#### OriGene Technologies, Inc.

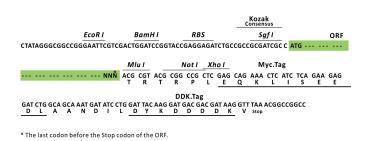
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### Product datasheet for RC220459L1

#### Natriuretic Peptide Receptor B (NPR2) (NM\_003995) Human Tagged Lenti ORF Clone

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Natriuretic Peptide Receptor B (NPR2) (NM_003995) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Natriuretic Peptide Receptor B
Synonyms:	AMDM; ANPb; ANPRB; ECDM; GC-B; GCB; GUC2B; GUCY2B; NPRB; NPRBi; SNSK
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC220459).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	<i>Sgf</i> I ORF <i>Mlu</i> I GCG ATC GCC ATG// NNN ACG CGT



ACCN: ORF Size: NM\_003995 3141 bp



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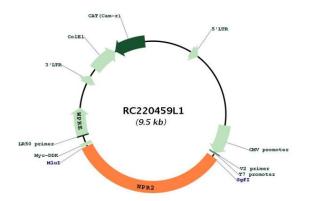
	Natriuretic Peptide Receptor B (NPR2) (NM_003995) Human Tagged Lenti ORF Clone – RC220459L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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 Me	<ul> <li>thod: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ul>
RefSeq:	<u>NM 003995.3</u>
RefSeq Size:	3447 bp
RefSeq ORF:	3144 bp
Locus ID:	4882
UniProt ID:	<u>P20594</u>
Cytogenetics:	9p13.3
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Purine metabolism, Vascular smooth muscle contraction
MW:	117.02 kDa

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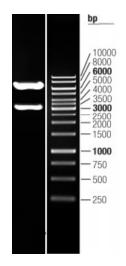
## Image: Second systemNatriuretic Peptide Receptor B (NPR2) (NM\_003995) Human Tagged Lenti ORF Clone -<br/>RC220459L1

# Gene Summary:This gene encodes natriuretic peptide receptor B, one of two integral membrane receptors<br/>for natriuretic peptides. Both NPR1 and NPR2 contain five functional domains: an extracellular<br/>ligand-binding domain, a single membrane-spanning region, and intracellularly a protein<br/>kinase homology domain, a helical hinge region involved in oligomerization, and a carboxyl-<br/>terminal guanylyl cyclase catalytic domain. The protein is the primary receptor for C-type<br/>natriuretic peptide (CNP), which upon ligand binding exhibits greatly increased guanylyl<br/>cyclase activity. Mutations in this gene are the cause of acromesomelic dysplasia Maroteaux<br/>type. [provided by RefSeq, Jul 2008]

#### **Product images:**



Circular map for RC220459L1



Double digestion of RC220459L1 using Sgfl and Mlul

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