

Product datasheet for **RC209267L4V**

Natriuretic Peptide Receptor A (NPR1) (NM_000906) Human Tagged ORF Clone Lentiviral Particle

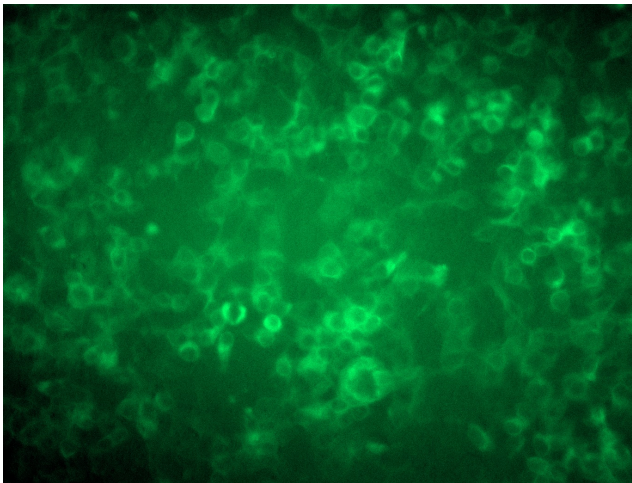
Product data:

Product Type:	Lentiviral Particles
Product Name:	Natriuretic Peptide Receptor A (NPR1) (NM_000906) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Natriuretic Peptide Receptor A
Synonyms:	ANPa; ANPRA; GUC2A; GUCY2A; NPRA
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000906
ORF Size:	3183 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209267).
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:	NM_000906.2 , NP_000897.2
RefSeq Size:	4201 bp
RefSeq ORF:	3186 bp
Locus ID:	4881
UniProt ID:	P16066
Cytogenetics:	1q21.3
Domains:	pkinaase, CYCc, ANF_receptor



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Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Purine metabolism, Vascular smooth muscle contraction
MW:	119 kDa
Gene Summary:	Guanylyl cyclases, catalyzing the production of cGMP from GTP, are classified as soluble and membrane forms (Garbers and Lowe, 1994 [PubMed 7982997]). The membrane guanylyl cyclases, often termed guanylyl cyclases A through F, form a family of cell-surface receptors with a similar topographic structure: an extracellular ligand-binding domain, a single membrane-spanning domain, and an intracellular region that contains a protein kinase-like domain and a cyclase catalytic domain. GC-A and GC-B function as receptors for natriuretic peptides; they are also referred to as atrial natriuretic peptide receptor A (NPR1) and type B (NPR2; MIM 108961). Also see NPR3 (MIM 108962), which encodes a protein with only the ligand-binding transmembrane and 37-amino acid cytoplasmic domains. NPR1 is a membrane-bound guanylate cyclase that serves as the receptor for both atrial and brain natriuretic peptides (ANP (MIM 108780) and BNP (MIM 600295), respectively).[supplied by OMIM, May 2009]

Product images:

[RC209267L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC209267L4V particle to overexpress human NPR1-mGFP fusion protein.