

## Product datasheet for **RC204458L4V**

### GNS (NM\_002076) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	GNS (NM_002076) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GNS
Synonyms:	G6S
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_002076
ORF Size:	1656 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204458).
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. <a href="#">More info</a>
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:	<a href="#">NM_002076.2</a>
RefSeq Size:	5144 bp
RefSeq ORF:	1659 bp
Locus ID:	2799
UniProt ID:	<a href="#">P15586</a>
Cytogenetics:	12q14.3
Domains:	Sulfatase
Protein Families:	Druggable Genome, Transmembrane



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**Protein Pathways:** Glycosaminoglycan degradation, Lysosome, Metabolic pathways

**MW:** 62.1 kDa

**Gene Summary:** The product of this gene is a lysosomal enzyme found in all cells. It is involved in the catabolism of heparin, heparan sulphate, and keratan sulphate. Deficiency of this enzyme results in the accumulation of undegraded substrate and the lysosomal storage disorder mucopolysaccharidosis type IIID (Sanfilippo D syndrome). Mucopolysaccharidosis type IIID is the least common of the four subtypes of Sanfilippo syndrome. [provided by RefSeq, Jul 2008]