

## Product datasheet for RC209415L4

### NT2NL (NOTCH2NL) (NM\_203458) Human Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NT2NL (NOTCH2NL) (NM_203458) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	NT2NL
Synonyms:	N2N; NOTCH2NL
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209415).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



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

ACCN:	NM_203458
ORF Size:	708 bp



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<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>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> </ol>
<b>RefSeq:</b>	<a href="#">NM_203458.3</a>
<b>RefSeq Size:</b>	5324 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	388677
<b>UniProt ID:</b>	<a href="#">Q7Z3S9</a>
<b>Cytogenetics:</b>	1q21.1
<b>MW:</b>	25.8 kDa
<b>Gene Summary:</b>	Human-specific protein that promotes neural progenitor proliferation and evolutionary expansion of the brain neocortex by regulating the Notch signaling pathway (PubMed:29856954, PubMed:29856955, PubMed:29561261). Able to promote neural progenitor self-renewal, possibly by down-regulating neuronal differentiation genes, thereby delaying the differentiation of neuronal progenitors and leading to an overall final increase in neuronal production (PubMed:29856954). Acts by enhancing the Notch signaling pathway via two different mechanisms that probably work in parallel to reach the same effect (PubMed:29856954). Enhances Notch signaling pathway in a non-cell-autonomous manner via direct interaction with NOTCH2 (PubMed:29856954). Also promotes Notch signaling pathway in a cell-autonomous manner through inhibition of cis DLL1-NOTCH2 interactions, which promotes neuronal differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

