

## Product datasheet for **SC310404**

### LNP (LNPK) (NM\_030650) Human Untagged Clone

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | LNP (LNPK) (NM_030650) Human Untagged Clone                                             |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | LNP                                                                                     |
| Synonyms:                 | KIAA1715; LNP; LNP1; NEDEHCC; UI; ulnaless                                              |
| Mammalian Cell Selection: | Neomycin                                                                                |
| Vector:                   | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF:      | >SC310404 representing NM_030650.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGGTGGATTATTTCTCGATGGAGGACAAAACCTTCAACTGTAGAAGTTCTAGAAAGTATAGATAAG
GAAATTCAAGCATTGGAAGAATTTAGGGAAAAAATCAGAGATTACAAAAATTATGGGTTGGAAGATTA
ATTCTGTATTCTCAGTTCTCTATCTGTTACATGCTTAATTGTATATTTGTGGTATCTTCTGATGAA
TTTACAGCAAGACTTGCCATGACACTCCCATTTTTGCTTTCCATTGATCATCTGGAGCATAAGAACA
GTAATTATTTCTCTTTCCAAGAGAACAGAAAGAAATAATGAAGCATTGGATGATTTAAATCCAG
AGGAAAAAATACTTGAAGAAGTCATGGAAAAAGAACTTACAAGACGGCTAAATTAATTCTTGAAAGG
TTTGATCCGGACTCAAAGAAAGCAAAGGAGTGTGAGCCGCATCTGCTGGAGCAGCTGTAAGTGAAGA
CCTGGACAAGAGATTCTGTCAGCGAACTGCAGCTCAAAGAAACCTTTCTCCAACACCAGCAAGCCCTAAC
CAGGGCCCTCCTCCACAAGTTCCAGTATCTCCTGGACCACAAAGGACAGTTCTGCCCTGGTGGACCC
CCAGAAAGGACTGTTACTCCAGCCCTATCATCAATGTGTTACCAAGACATCTTGATCCCTGCTACT
TCAGTGCCTGGAATGGGTCTTCATCCTCCAGGTCCACCTTTAGCAAGACCTATTCTCCCCGAGAACGA
GGTGCTTTGGATAGAATTGTTGAATATTTGGTTGGTGTGGTCCAAAAACAGGTATGCACTTATATGT
CAGCAGTGTTTTCTCATAATGGCATGGCTTTGAAGGAAGAATTTGAATACATTGCTTTTCGATGTGCC
TACTGTTTTTTCTGAACCTGCAAGAAAAACCAGACCTCAGGCTCCAAGACTTCCTGAGTTTAGTTTT
GAGAAGAGGCAGGTGGTGAAGGTTCAAGTTCAGTTGGTCCCTTGCCATCAGGAAGTGTGCTTTTCATCA
GACAACAGTTTAAATGAAGAATCTTTAGAACACGATGTTCTTGATGATAATACAGAGCAGACAGATGAC
AAAATACCAGCTACAGAACAGACAAACCAAGTGATTGAAAAAGCATCTGACTCAGAGGAACCAGAGGAG
AAACAAGAGACTGAGAATGAGGAAGCCTCAGTGATTGAAACCACTCCACAGTTCCTGGAGCTGATTCT
ATTCTGATCCTGAACCTAAGTGGAGAATCTTTGACGGCAGAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restriction Sites:</b>     | Sgfl-Mlul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ACCN:</b>                  | NM_030650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Insert Size:</b>           | 1287 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                      |
| <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>                | <u><a href="#">NM_030650.2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 7629 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1287 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 80856                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u><a href="#">Q9C0E8</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 2q31.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Families:</b>      | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MW:</b>                    | 47.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Gene Summary:**

Endoplasmic reticulum (ER)-shaping membrane protein that plays a role in determining ER morphology (PubMed:30032983). Involved in the stabilization of nascent three-way ER tubular junctions within the ER network (PubMed:24223779, PubMed:25404289, PubMed:25548161, PubMed:27619977). May also play a role as a curvature-stabilizing protein within the three-way ER tubular junction network (PubMed:25404289). May be involved in limb development (By similarity). Is involved in central nervous system development (PubMed:30032983).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) uses an alternate splice junction in the 5' end compared to variant 1. The resulting isoform (4) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.