

## Product datasheet for MR225348

### Lrrk2 (NM\_025730) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Lrrk2 (NM_025730) Mouse Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Lrrk2   |
| Synonyms:                 | 4921513O20Rik; 9330188B09Rik; AW561911; cl-46; D630001M17Rik; Gm927         |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR225348 representing NM_025730<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGTGGCGCCTGTCAGGGCTGCGAAGAGGAAGAGGAGGAGGCTCTGAAGAAGTTGATAGTCA  
GGCTGAATAATGTCCAGGAAGGCAAGCAGATCGAGACGTTGCTTCAGCTCCTGGAGGACATGCTGGTGT  
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CTGGACTCTACATGAGAGTTGCCAGTGTACAGCAGGCGGGTGGTCACTTCTGTGCAAATTAATAGAAG  
TCTGTCCAGGGACATTGCAAAGCTTAATAGGACCCAGGATATTGAAATGATTGGGAAGTCTTGGTAT  
TCACCGGCTGATTCTTAAATGTTAACTGTTTCATCACGCAATGTAACCTGTCAATAGTTGGACTAAAA  
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ATACTAACAGTGATGAAAGCCCACGGAACGTCTCTGTCAGTCCAGCTGGAGGCGCTGCGAGCTATCTTGC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225348 representing NM\_025730  
 Red=Cloning site Green=Tags(s)

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 LDSYMRVASVQQAGWSLLCKLIEVCPGTLQSLIGPQDIGNDWEVLGIHRLILKMLTVHHANVNLIVGLK  
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 KILASTLQRFKDVAEVQTTGLQTLSILELSVSFSKLLVHYSFDVVIHFQMSVVVEQKDEQFLNLCKKC  
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 VIELPHCENSEIIRLYEMPYPMGFWSRLINRLEISPFMLSGRERLRPNRMYWRQGIYLNWSPEAYC  
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 LGCGNTEKQQLSLFDLNTERYSYEEVADSRILCLALVHLAAEKESWVVCGTQSGALLVINVEETKRHTL  
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 SSERHITWGGCGTKVFSFNDFTIQKLIETKTNQLFSYAAFSDSNIIALAVDTALYIAKKNPVEVWDK  
 KTEKLCLEIDCVHFLKEVMVKLNKESKHQLSYSGRVKALCLQKNTALWIGTGGGHILLLDLSTRRVIRTI  
 HNFCDSVRAMATAQLGSLKNVMLVLGYKRKSTEGIQEQKEIQSCLSIWDLNLPHEVQNLKHEVIRTELA  
 DKMRKTSVE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9008\\_f06.zip](https://cdn.origene.com/chromatograms/mm9008_f06.zip)  
 Restriction Sites: Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_025730

**ORF Size:** 7587 bp

**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.

**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 Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  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.

**RefSeq:** [NM\\_025730.3](#), [NP\\_080006.3](#)

**RefSeq Size:** 8231 bp

**RefSeq ORF:** 7584 bp

**Locus ID:** 66725

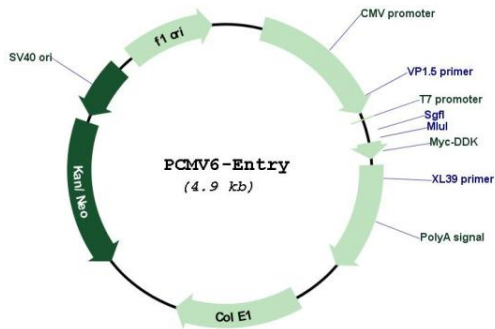
**UniProt ID:** [Q5S006](#)

**Cytogenetics:** 15 E3

MW: 285.2 kDa

**Gene Summary:** Positively regulates autophagy through a calcium-dependent activation of the CaMKK/AMPK signaling pathway. The process involves activation of nicotinic acid adenine dinucleotide phosphate (NAADP) receptors, increase in lysosomal pH, and calcium release from lysosomes. Together with RAB29, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). Phosphorylates PRDX3. Has GTPase activity (By similarity). Plays an important role in recruiting SEC16A to endoplasmic reticulum exit sites (ERES) and in regulating ER to Golgi vesicle-mediated transport and ERES organization (PubMed:25201882).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225348