

## Product datasheet for **SC319459**

### PARL (NM\_001037639) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | PARL (NM_001037639) Human Untagged Clone |
| Tag:                      | Tag Free                                 |
| Symbol:                   | PARL                                     |
| Synonyms:                 | PRO2207; PSARL; PSARL1; PSENIP2; RHBDS1  |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC (PS100020)                      |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |

**Fully Sequenced ORF:** >OriGene sequence for NM\_001037639.1  
GGCACGAGGGTTGGTAAGGTCGGGCCATGGTGGGGCAGAGGTTGGGAAGATGGCGTGGCG  
AGGCTGGGCGCAGAGAGGCTGGGGCTGCGGCCAGGCGTGGGGTGGTGGTGGTGGGCGCCG  
CAGCTGCGAGGAGCTCACTGCGGTCCTAACCCCGCCGAGCTCCTCGGACGAGGTTTAA  
CTTCTTTATTCAACAAAAATGCGGATTCAGAAAAGCACCCAGGAAGGTTGAACCTCGAAG  
ATCAGACCCAGGGACAAGTGGTGAAGCATACAAGAGAAGTGCTTTGATTCTCCTGTGGA  
AGAAACAGTCTTTTATCCTTCTCCCTATCCTATAAGGAGTCTCATAAACCTTTATTTTT  
TACTGTTGGGTTTACAGGCTGTGCATTTGGATCAGCTGCTATTTGGCAATATGAATCACT  
GAAATCCAGGGTCCAGAGTTATTTTGGTATAAAAAGCTGATTGGTTGGATAGCATAAG  
ACCACAAAAAGAAGGAGACTTCAGAAAGGAGATTAACAAGTGGTGAATAACCTAAGTGA  
TGGCCAGCGGACTGTGACAGGATTATAGCTGCAAATGTCCTTGTATTCTGTTTATGGAG  
AGTACCTTCTCTGACGCGACAATGATCAGATATTTACATCGAATCCAGCCTCAAGTGT  
TATTTCCAATTTTGTGAGTTACGTGGGTAAGTTGCCACAGGAAGATATGGACCATCACT  
TGGTGCATCTGGTGCCATCATGACAGTCCTCGCAGCTGTCTGACTAAGATCCCAGAAGG  
GAGGCTTGCCATTATTTTCTCCGATGTTACGTTTACAGCAGGGAAATGCCCTGAAAGC  
CATTATCGCCATGGATACAGCAGGAATGATCCTGGGATGGAAATTTTGGATCATGCGGC  
ACATCTTGGGGGAGCTCTTTTGGAAATATGGTATGTTACTTACGGTCATGAACTGATTTG  
GAAGAACAGGGAGCCGCTAGTAAAACTGGCATGAAATAAGGACTAATGGCCAAAAAAA  
AGGAGGTGGCTCTAAGTAAACTGGGATTGGACAGTAGTGGTGCATCTGGTCTTTGCCGC  
CTGAGAGCCCGAGGAGACATCGGCTAGAGTGACCATGGCTATGCTCCCGTCTGGAAGATG  
CCAGCATCTGGCCTCCCACTGTTTTAGCTGTGTCCCAAGTCCGTGTCTTTTTAGAATG  
TGAATGATGATAAAGTTGTGAAATAAAGGTTTCTATCTAGTTTGTAAAAA  
AAA

|                    |                |
|--------------------|----------------|
| Restriction Sites: | Please inquire |
| ACCN:              | NM_001037639   |



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|                               |   |
|-------------------------------|---|
| <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_001037639.1</a></u> , <u><a href="#">NP_001032728.1</a></u>   |
| <b>RefSeq Size:</b>           | 1273 bp   |
| <b>RefSeq ORF:</b>            | 990 bp  |
| <b>Locus ID:</b>              | 55486   |
| <b>UniProt ID:</b>            | <u><a href="#">Q9H300</a></u>   |
| <b>Cytogenetics:</b>          | 3q27.1  |
| <b>Protein Families:</b>      | Protease, Transmembrane   |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the rhomboid family of intramembrane serine proteases that is localized to the inner mitochondrial membrane. The encoded protein regulates mitochondrial remodeling and apoptosis through regulated substrate proteolysis. Proteolytic processing of the encoded protein results in the release of a small peptide, P-beta, which may transit to the nucleus. Mutations in this gene may be associated with Parkinson's disease. [provided by RefSeq, May 2016]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. The encoded isoform (2) may be localized to the mitochondria.</p> |