

## Product datasheet for **MC204973**

### Ufm1 (NM\_026435) Mouse Untagged Clone

#### Product data:

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| <b>Product Type:</b>             | Expression Plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Tag:</b>                      | Tag Free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Symbol:</b>                   | Ufm1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms:</b>                 | 1810045K17Rik; AII32708; AI463323; ENSMUSG00000074598; Gm10726                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Mammalian Cell Selection:</b> | Neomycin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Vector:</b>                   | PCMV6-Kan/Neo (PCMV6KN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>E. coli Selection:</b>        | Kanamycin (25 ug/mL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Fully Sequenced ORF:</b>      | <p>&gt;BC061065</p> <p>GCCATCAAGGAAGCGCGGCGGGCGGCTGGGCGCGGTGTGTGTCAGGCGGTTCCACCATGTGCGAAGGTGTC<br/> CTTTAAATCACGTTGACGTGCGACCGCGGCTGCCGTACAAAGTTCTCAGTGTTCTGAAAGTACGCCG<br/> TTCACAGCAGTGCTAAAGTTTGCAGCAGAAGAATTTAAAGTTCTGCAGCTACAAGTGCGATTATTACTA<br/> ATGATGGAATAGGAATAATCCTGCACAGACTGCTGGGAATGTTTTCTGAAGCACGGCTCAGAACTGAG<br/> AATCATTCCTAGAGACCGAGTTGGAAGCTGCTAATATATGCTTGTGGAACACACAGCCTTTCAGAATAA<br/> ATACTGGTATTGTGTGCTGTACAATTGAAATCAGGCATTACCATACAATGAAAGCACCAAGAATCA<br/> ACAGAACAGGGAAGCGGCCGCTTGTCCCTTCTGTTTCATTTTTCATGGAAGAGAGAATGCCTTTGA<br/> GTGGAGGGTACGACACCACAGGTACACTGTGGTACTGCTGCCTCACCAGGAGAGAGAGTACCTCTGA<br/> GACAAATGGACTGTGCTTTAAACAAAAACAGCAAAATGGGAGGATGAGTGCTAACTCTTTTCAGGAGCA<br/> TTTGGAATTCAAATTCACAGAATTGGATGTAGTTTTTAATTTTGAAATTTAAAGGATAATTGATCATA<br/> GAGGTATTTGACTTGACAGCATCTCTAGTTAGATTTTTAAATTATATAATTTGTGATGAACTTAATAGG<br/> TATTTGAATGAACAGTTAAATTTATACAAAGCCAACATTAAATTATAGGATCTAACCATTATGAGTATA<br/> AGTTGCTATTGTACGTCAAATAGTTTCGATAGTAGAGATCTGTGAATCCAGTATGTCATGGTGGGAAC<br/> GACAGTACCACAGAAGCACCTTAGGTATATTATGAATTCCTTGATAAATAATAAGCATTAGGACAGAA<br/> ATCCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</p> |
| <b>Restriction Sites:</b>        | Sfil-Sfil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ACCN:</b>                     | NM_026435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Insert Size:</b>              | 258 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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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>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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq:</b>                | <a href="#">BC061065</a> , <a href="#">AAH61065</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 1016 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq ORF:</b>            | 258 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Locus ID:</b>              | 67890                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID:</b>            | <a href="#">P61961</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cytogenetics:</b>          | 3 C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Summary:</b>          | Ubiquitin-like modifier which can be covalently attached via an isopeptide bond to substrate proteins as a monomer or a lysine-linked polymer (PubMed:21494687). The so-called ufmylation, requires the UFM1-activating E1 enzyme UBA5, the UFM1-conjugating E2 enzyme UFC1, and the UFM1-ligase E3 enzyme UFL1. This post-translational modification on lysine residues of proteins may play a crucial role in a number of cellular processes. TRIP4 ufmylation may for instance play a role in nuclear receptors-mediated transcription (By similarity). Other substrates may include DDRGK1 with which it may play a role in the cellular response to endoplasmic reticulum stress.[UniProtKB/Swiss-Prot Function] |