

## Product datasheet for **MC220352**

### **Hspa12a (NM\_175199) Mouse Untagged Clone**

#### **Product data:**

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                |
| Product Name:             | Hspa12a (NM_175199) Mouse Untagged Clone                                           |
| Tag:                      | Tag Free                                                                           |
| Symbol:                   | Hspa12a                                                                            |
| Synonyms:                 | 1700063D12Rik; AI118035; AI840429; AW048913; AW556406; D5Mgi40; Gm19925; mKIAA0417 |
| Mammalian Cell Selection: | Neomycin                                                                           |
| Vector:                   | pCMV6-Entry (PS100001)                                                             |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                               |



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**Fully Sequenced ORF:** >MC220352 representing NM\_175199  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACAAGGAAGCTGGCGGTGGAGACGCCGGGCCCCGAGAAACAGCCCCACATCTACATATTCCT  
 CTCCGGCCAGGAGTCTCGGGGACACAGGAATAACACCTCTGTCCCCTTCCCATATCTTGAACGATGCTGA  
 CCCCCTCTCTGAGCAGCAGACCTTTCTCGTGGTGGCCATCGACTTTGGGACCACGTCCAGTGCTAT  
 GCCTACAGCTTTACCAAGGAGCCAGAATGTATCCACGTGATGCGGAGATGGGAAGGAGGTGACCTGGTG  
 TTTCAACCCAGAAGACCCCGACCACCATCTTGCTGACACCAGAGAGGAAGTTCCACAGCTTTGGGTACGC  
 TGCCAGGGACTTCTACCATGACCTGGACCCAGTGAGGCCAAGCAATGGCTGTACTTGGAGAAGTTCAAG  
 ATGAACTCCACACCACAGGGGACCTCACCATGGACACAGACTTAACAGCAGCAATGGCAAGAAGGTCA  
 AAGCCCTCGAGATCTTCGCTTACGCCCTGCAGTACTTCAAGGAGCAGGCTCTGAAGGAAGTGAAGTGA  
 GGCAGGGTCGGACTTTGAGAAGCTGACGTGAGTGGGTGATCACAGTGCCTGCCATCTGGAAGCAACCA  
 GCCAAGCAGTTTATGAGAGAAGCTGCCTACCAGGCAGGCCTGGCTCCCCGAGAACTCGGAGCAGCTCA  
 TCATTGCCCTGGAGCCCAGGCCGCTCCATCTACTGCCGGAAGCTTCGGCTGCACCAGATGATTGAGCT  
 CAGCAGCAAGGCGGTGGTCAATGGGTACAGTGCCAGTGACACAGTAGGAGCGGGTTTGCACAGGCTAAG  
 GAACATGTTTCAGCTAACCGGCAGAGTCGGACCTTTTGGTGGAGAATGTCATAGGAGAAATCTGGTCTG  
 AGCTGGAGGAAGGGGACAAGTACGTGGTGTGACAGTGGCGGAGGCACAGTAGACCTGACCGTCCATCA  
 GATACGGTTACCAGAGGGGACCTCAAGGAGCTGTACAAAGCAACAGGTGGACCGTACGGATCCCTGGGA  
 GTGGATTATGAATTTGAAAACTCCTTTGTAATAATTTGGAGAGGATTTTATCGAACAGTTCAAGATCA  
 AACGCCCGGCAGCCTGGGTTGACCTAATGATTGCCTTTGAGTCTCGAAAAGAGCTGCTGCACAGATCG  
 AACCAATCCCCTGAACATCACTCTGCCCTTCTCCTTCATTGACTACTACAAGAAGTTCCGGGGCCACAGC  
 GTGGAGCATGCATTGAGGAAGAGCAATGTGACTTTGTGAAGTGGTCTCCAGGGCATGCTGAGGATGA  
 GCCCAGATGCCATGAACGCCCTTTCAAGCCGACCATCGACAGCATCATCGAGCACCTCCGGGACCTGTT  
 TCAGAAGCCAGAGGTATCCACGGTCAAGTTCCTCTTTCTGGTGGTGGCTTTGCAGAGGCCGCCCTTTTG  
 CAGCAGGCAGTGCAGACCGCTTTTGGCGACAAATGCAGGATCATCATCCCGCAGGATGTGGGCTCACCA  
 TCCTCAAGGGCGCTGTCTCTTCGGCTGGACCTGCCGTTATCAAGGTGCGCCGTCCTCTCACCTA  
 CGGAGTAGGTGTCTGAACCGCTACGTGGAAGGAAGCACCTCCCGAGAAGCTATTGGTCAAGGACGGC  
 ACACGCTGGTGCACCGACGTCTTCGACAAGTTCATCTCCGCCGACAGTCTGTGGCTCTGGGGAGCTGG  
 TCAAGCGTAGCTACACCCCGGCCAAGCCTTCCAGCTGGTTCATCATCAACATCTACAGCTCTGAGCA  
 TGATAACGTGAGTTCATCACTGACCCAGGGGTGAAAAAGTGTGGCACGCTCCGCTTGGATCTCACGGGG  
 AGCGGGCGGCACAGCGGTTCCCGCCCGCAGAGAGATCCAGACCATCATGCAGTTCGGGGACACTGAGATCA  
 AGGCCACGGCCGTCGACATAACCACTCAAGAGTGTCAAAGTGGGGATCGACTTCTAAATTAC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_175199

**Insert Size:** 2028 bp

**OTI Disclaimer:** 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).

**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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                | <u>NM_175199.3, NP_780408.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 5733 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2028 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 73442                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q8K0U4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 19 D2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Summary:</b>          | <p>Adapter protein for SORL1, but not SORT1. Delays SORL1 internalization and affects SORL1 subcellular localization.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon and uses an alternate start codon, compared to variant 1. It encodes isoform 2, which has a shorter and distinct N-terminus, compared to isoform 1.</p>                                                                                                                         |