

## Product datasheet for **RN214847**

### **F8a1 (NM\_001109323) Rat Untagged Clone**

#### Product data:

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                |
| Product Name:             | F8a1 (NM_001109323) Rat Untagged Clone                                             |
| Tag:                      | Tag Free                                                                           |
| Symbol:                   | F8a1                                                                               |
| Synonyms:                 | F8a; Hap40; RGD1566014                                                             |
| Mammalian Cell Selection: | Neomycin                                                                           |
| Vector:                   | pCMV6-Entry (PS100001)                                                             |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                               |
| Fully Sequenced ORF:      | >RN214847 representing NM_001109323<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCGGGCTCCGCGTCGTCCTGGGCGGAGGCTCCTGGCCAGGCTCTGAGGCTGGGGACTTCTTGG  
CCCCTACCGGCAGGTGTCCAACAAGCTCAAGAAGCGCTTCTTGCAGGAGCCGAACGTGGCGGAGGCCGG  
GGAGCAGTTCGCACAGCTGGCCCGGAGCTGCGAGCTCAAGAGTGCCTTATGCCGCTGGTGCCAG  
CTGGCTGTGGCAGCTGCCAGCAGGCGCTTCCATGGGCCCGGGAAGCGCTGGCCCTTACAGAGGCGG  
CCCAGCTTTTCTGAGGCAGGAGTGCATGCGCGCCAACGCCTGGGCTGTCTGCGGCTTATGGGGAGCC  
TTTGCAGGCGGCCGCGCAGCGCCCTTGGCGCCGCCGTGCGCTGCACCTTGAAGTGGGCCAGCCCGCGCT  
GCTGCCGCACTGTGCTAGAACTGGCTGCCGCCCTTCGCGCTGTGGGCCAGCCAGCCGCTGCTGCAGGTC  
ACTTTCAACGTGCTGCCAGCTGCACCTGCCCTGATGCCACTGGCCGCGCTGCAGGCACTTGGTGATGC  
TGCTCTCTGCCAGTTGCTGGCGCGGACTACACTGGCGCCCTGGCGGTTTTACACGCATGCAACGCCTG  
GCACGGGAGCATGGGGGCCACCCGCTACAGCAACCCGAGCTGCCGAGCAGCTGCCTTCTGTGCTCAGC  
CATCTCTGCCGGGACCCAGCCGAGACCTGTCTTGGGCTCTACCTTGGCCCTGCCGCTGCCCGCGGACCA  
CGCCCCAGGCTCTGTTGCGCAGTCACCTGGTACACTCGGTGCCTTCGCTGACGTTCTTGTAGGTGTGAG  
GTGTCCCGTGATTGTTGCTGCTCCTGCAACCACCGCTGCCAAGCTGCTGCCTGAGCAGCCCCAGA  
CCCTGGAGAAGTACTCTTGGGAGGCTTTCGATGGCCATGGCCAGGATAGCAGCGGCCAGCTTCCAGAGGA  
GCTGTTTTTTGTTATTGCACTCCCTGGTCACTGGCTGCCACGAAAAGGATACTGAAGGCATCAAGAACTG  
CAGGTGGAGATGTGGCACTGCTAACTGCTGAGCAGAACCACTCTCCACCTCGTTCTGCAGGAAACCA  
TCTCTCCCTCGGACAGGGGCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restriction Sites:</b>     | Sgfl-Mlul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ACCN:</b>                  | NM_001109323                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Insert Size:</b>           | 1146 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>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>NM_001109323.1, NP_001102793.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 1515 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1146 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 501661                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u>M0RDU0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 1q31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | RAB5A effector molecule that is involved in vesicular trafficking of early endosomes. Mediates the recruitment of HTT by RAB5A onto early endosomes. The HTT-F8A1/F8A2/F8A3-RAB5A complex stimulates early endosomal interaction with actin filaments and inhibits interaction with microtubules, leading to the reduction of endosome motility.[UniProtKB/Swiss-Prot Function]                                                                                                                                         |