

## Product datasheet for **MR228184**

### Gm44504 (NM\_001278271) Mouse Tagged ORF Clone

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Tag:                      | Myc-DDK                               |
| Symbol:                   | Gm44504                               |
| Synonyms:                 | Gm38419; Slc10a3-ubl4; SlcUbl4a; Tull |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | pCMV6-Entry (PS100001)                |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |

**ORF Nucleotide Sequence:** >MR228184 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCAGCTGACCGTGAAGGCGCTCCAGGGCCGGAATGTAGCCTACAGGTGGCGGAGGACGAGCTAGTGT  
CTACACTGAAGCACCTGGTCTCGGATAAGCTGAATGTCCCTGTGCGCCAGCAACGTCTGCTGTTCAAGGG  
CAAGGCCCTAGCAGATGAAAAACGACTGTCAGATTACAACATTGGGCCCAATTCTAAGCTCAACCTAGTT  
GTTAAGCCTTTGGAGAAGGTGCTACTGGAAGAAGGGTCTGCCACAGACTGGTCGACTCCCCAGCCACCC  
CCATCTGGCAGCTGATCTCCAAAGTCTGGCCCGTCACTTCAGTGTAGCAGATGCCAGCAGGGTCTCTGGA  
ACAACTACAGAGGGATTATGACAGGTCCTTGAGCCGCCTAACACTGGATGACATCGAACGTTTGCCAGC  
CGCTTTCTACACCCTGAAGTACTGAGGCTATGAAAAAGGGTTCTGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228184 protein sequence  
Red=Cloning site Green=Tags(s)

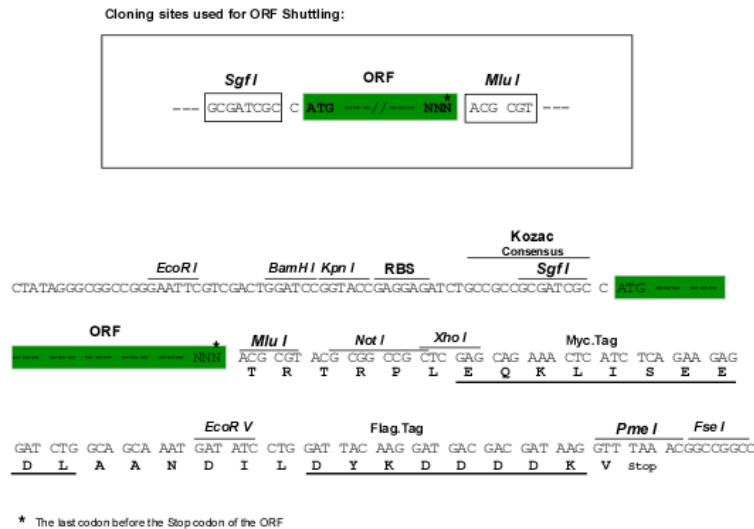
MQLTVKALQGREGSLQVAEDELVSTLKLHVSDDLNPVVRQQRLLFKGKALADEKRLSDYNIGPNSKLNLY  
VKPLEKVLLEEGSAHRLVDSPTPIWQLISKVLARHFSVADASRVLEQLQRDYDRSL SRL TLDDIERLAS  
RFLHPEVTEAMEKGFCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



## Cloning Scheme:



ACCN: NM\_001278271

ORF Size: 471 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.

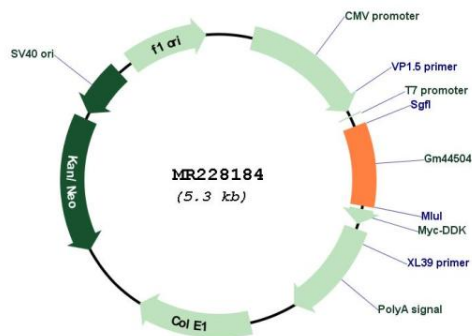
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_001278271.1](#), [NP\\_001265200.1](#)

RefSeq Size: 1187 bp  
 RefSeq ORF: 474 bp  
 Locus ID: 100169864  
 UniProt ID: [P21126](#)  
 Cytogenetics: X  
 MW: 17.8 kDa

**Gene Summary:** This locus represents naturally occurring readthrough transcription between the neighboring Slc10a3 (solute carrier family 10 (sodium/bile acid cotransporter family), member 3) and Ubl4 (ubiquitin-like 4) genes on chromosome X. While some readthrough transcripts encode a protein that is identical to the downstream gene product, at least one readthrough transcript appears to be a candidate for nonsense-mediated mRNA decay (NMD), and is unlikely to produce a protein product. [provided by RefSeq, May 2013]

**Product images:**



Circular map for MR228184