

Product datasheet for **RN200484**

Ret (NM_001110099) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Ret (NM_001110099) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Ret
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >RN200484 representing NM_001110099
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAAAGCGAGGTCCGGCGCCGAGGGCTGGGGCTGAAGCTGTTTTGCTGCTGCCGCTACTGGGAG
 AAGCCCCGCTGGGTCTCTACTTCTCAAGGGATGCTTACTGGGAGAGGCTGTATGTGGACCAGCCAGCTGG
 CACACCTCTGCTCTATGTCCATGCCCTACGGGATGCCCTGGAGAAGTGCCAGCTTCCGCTGGCCAG
 TATCTCTATGGCGTCTACCGCACGCGTCTGCATGAGAACTGACTGGATCCACATCGATTCCGGCAGTGGCC
 TCCTCTACCTCAATCAGAGCCTGGACCATAGTTCTGGGAGCAGCTCAGCATCCGCAATGGCGGCTTCCC
 CTTGCTCACCGTCTTCCAGGCTTCTTGGGGTCCACAGCCAGAGAGAGGGAGAGTGTATTGGCCA
 GGCTGTGCCCGTGTGACTTCTCCTTCAACGACACCTTCCCAAATTGTAGCTCCTTCAAAGCCCGGG
 ATCTCTGCACCCCGGAGACGGGTGTGCTTCCGCATCAGGGAGAACAGGCCCCCTGGCACCTTCTACCA
 GTTCCGCATGCTACCTGTGCAGTTCCTTTGTCTAACATCAGTGTGAAGTACAACTCTTAGAAGGGGAC
 GGTCTGCCCTTCCGTTGTGACCCGACTGTCTGGAGGTGAGCACGCGGTGGGCGTGGATCGGGAGCTTC
 AGGAGAAGTATGTCTGGAGGCTGAGTGCAGTGGCAGGCCCTGGAGCCAACAAGGAGAAGGTGGCCGT
 GTCCTTCCCGGTGACGGTGTATGATGAAGACGACTCCCCGCCACCTTCTCCGGAGGTGTGGCACCGCC
 AGTGTGTGGTGGAGTTAAGCGGAAGGAGGGCACTGTGGTAGCCACTCTGCAGTGTGTTGATGCAGATG
 TGGTGCCAGCATCTGGGAGCTGGTGTGAGCGGTACACAAGCACACTACTCTCAGGGGATTCTGGGCCCA
 GCAGACCTTCCGGGTGGAGCACACCCAACGAGACCTTGGTCCAGTCCAACAACAACCTCCGTGCCGGCA
 ACCATGCACAATTACAAGCTGGTTCTCAACAGGAGCCTGTCCATCTCAGAGAGCCGAGTCTGCAGCTAG
 TAGTCTGGTCAATGACTCAGACTTCCAGGGGCTGGGTGAGGTGTTCTTCTTCCATTTCAACGTGTC
 TGTGCTGCCTGTACCCTGAACCTACCCATGGCCTACTCCTTCCAGTGAATAGGAGAGCCCGCCGTTAT
 GCCAGATTGGGAAAGTTTTCGTGGAGAAGTCCAGGAGTTACAGCGGTGTCTCCATCCAGTACAAGCTGC
 AGCCCTCAGCACCAACTGCAGTGCCCTAGGTGTGGTCACTCAACAGAAGACACCTCAGGGACCTATA
 TGTAAATGACACGGAGGCCCTGCGGCGACCTGAGTGTACCGAGCTTTCAGTACACAGTGGTAGCCACTGAC
 CGGCAGACCCGAGGCAGACCCAGGCTTCGTTAGTCGTACAGTGGAGGGACATACATTGCAGAAGAAG
 TGGGCTGCCCCAAGTCTGTGCAGTAAACAAGAGGCGACCTGAGTGTGAGGAGTGTGGTGGCCTGGGTTCC



TCCAAC TGGCAGATGTGAGTGGCGTCAGGGAGATGGTAAAGGGATCACCAGGAAC TCTCCACCTGTTCT
 CCTAGCAC CAGGACCTGTCTGATGGCCACTGTGATGCTCTGGAGAGCCGGGATATCAACATTTGCCCC
 AGGACTGTCTCCGTGGCCCAATTGTTGGCGGCATGAGCGAGGGGAGCGCCAGGGGATTAAGCCGGCTA
 TGGCATCTGCAACTGTTCCCTGATGAGAAGAAGTGTCTTCCGAGCCAGAGGACAGCCAGGGCCATTG
 TGCGATGAGCTGTGCCGTACGGTCATCACAGCCGCTGTCTTCTCCTCATAATCTCTGTCTGTCTGT
 CCACCTTCTGCATCCACCGCTACCACAAGCATGCGACAAGCCACCCATCGCGTCAGCCGAAATGACCTT
 CTGCCGCGCCGGCCAGGGCTTCCAATCAGCTATTCTTCTCGGGCACCCGCGCCCTCACTGGACTCC
 ATGGAGAACCAGTCTCTGTGGACTCTTCAAGATCCCGAGGATCCGAAGTGGGAATTCCTCGGAAGA
 ACTTAGTCTTGGGAAAACCCTGGGAGAAGCGAGTTTGGAAAAGTAGTCAAGGCCACAGCCTTCCGTCT
 GAAAGGCCGGCAGGATACACCACAGTGGCTGTGAAAATGCTGAAAGAAAACGCCTCCAGAGTGAAC TA
 CGAGACCTGCTCTGAGTTCAACCTTCTGAAACAAGTCAACCATCCACATGTCATCAAGTTGTACGGGG
 CTTGCAGCCAGGATGGGCCACTTCTTCTATTGTGGAGTATGCAAAGTATGGATCCCTGCGGGGTTCT
 GCGGGACAGCCGAAGATCGGGCCTGCCTATGTGAGCAGTGGAGGCAGCCGAATTCAGCTCCCTGGAC
 CACCCAGACGAAAGGGTCTGACCATGGGCGACCTCATCTCCTCGCCTGGCAGATCTCGAGGGTATGC
 AGTACTTGGCTGAAATGAAGCTGTACATCGAGACTTAGCTGCCAGAAACATCTTGGTGGCAGAGGGACG
 GAAGATGAAGATCTCTGACTTTGGGCTGTCCCGAGATGTTTATGAAGAAGATTCCTATGTGAAGAAAAGC
 AAGGGCCGGATTCCCGTCAAATGGATGGCAATCGAGTCTCTTTCGATCACATCTATACCACTCAAAGTG
 ATGTGTGGTCTTTGGAGTGTGCTATGGGAGATTGTGACCCTGGGAGGCAACCCCTACCTGGAATTC
 TCCTGAACGACTCTTCAACCTTCTGAAGACAGGCCACAGGATGGAGAGCCAGACAAC TCGAGCGAGGAA
 ATGTACCGCTGATGTGCTGAGTGTGGAAGCAGGAGCCGGACAAGAGGCCAGTATTTGCTGACATCAGCA
 AGGATCTGGAGAAGATGATGGTCAAAGCAGAGACTACTTGGACCTGGCTGCATCCACCCCTTGGACTC
 ACTGCTCTATGACGATGGGCTCTCGGAAGAGGAGACGCCCTGGTGGACTGTAACAGTGTCCCTCCCG
 CGCTCCCTCCCTCCACATGGATTGAAAACAACTCTATGGTAGAATTCACATGCATTTACTAGATTCT
 AG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001110099
- Insert Size:** 3222 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).
- 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.
- RefSeq:** [NM_001110099.1](#), [NP_001103569.1](#)
- RefSeq Size:** 3928 bp

RefSeq ORF: 3222 bp

Locus ID: 24716

Cytogenetics: 4q42

Gene Summary: may play a role in excretory system and enteric nervous system development; human homolog is associated with Hirschsprung disease and Multiple Endocrine Neoplasia type 2 [RGD, Feb 2006]
Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and unique C-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.