

Product datasheet for **RN200483**

Ret (NM_012643) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ret (NM_012643) 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:	>RN200483 representing NM_012643 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGAAAGCGAGGTCCGGCGCCGAGGGCTGGGGCTGAAGCTGTTTTGCTGCTGCCGCTACTGGGAG
AAGCCCCGCTGGGTCTCTACTTCTCAAGGGATGCTTACTGGGAGAGGCTGTATGTGGACCAGCCAGCTGG
CACACCTCTGCTCTATGTCCATGCCCTACGGGATGCCCTGGAGAAGTGCCAGCTTCCGCTGGCCAG
TATCTCTATGGCGTCTACCGCACGCGTCTGCATGAGAACTGACTGGATCCACATCGATTCCGGCACTGGCC
TCCTCTACCTCAATCAGAGCCTGGACCATAGTTCTGGGAGCAGCTCAGCATCCGCAATGGCGGCTTCCC
CTTGCTCACCGTCTTCCAGGCTTCTGGGGTCCACAGCCAGAGAGAGGGAGAGTGTCAATTGGCCA
GGCTGTGCCCGTGTGTACTTCTCCTTCAACGACACCTTCCCAAATTGTAGCTCCTTCAAAGCCCGGG
ATCTCTGCACCCCGGAGACGGGTGTGTCTTCCGCATCAGGGAGAACAGGCCCTTGGCACCTTCTACCA
GTTCCGCATGCTACCTGTGCAGTTCCTTTGTCTAACATCAGTGTGAAGTACAACTCTTAGAAGGGGAC
GGTCTGCCCTTCCGTTGTGACCCGACTGTCTGGAGGTGAGCACGCGGTGGGCGTGGATCGGGAGCTTC
AGGAGAAGTATGTCTGGAGGCTGAGTGCAGTGGCAGGCCCTGGAGCCAACAAGGAGAAGGTGGCCGT
GTCTTCCCGGTGACGGTGTATGATGAAGACGACTCCCCGCCACCTTCTCCGGAGGTGTGGCACCGCC
AGTGTGTGGTGGAGTTAAGCGGAAGGAGGGCACTGTGGTAGCCACTCTGCAGTGTGTTGATGCAGATG
TGGTGCCAGCATCTGGGAGCTGGTGAAGCGGTACACAAGCACACTACTCTCAGGGGATTCTGGGCCCA
GCAGACCTTCCGGGTGGAGCACACCCAACGAGACCTTGGTCCAGTCCAACAACAACCTCCGTGCGGGCA
ACCATGCACAATTACAAGCTGGTTCTCAACAGGAGCCTGTCCATCTCAGAGAGCCGAGTCTGCAGCTAG
TAGTCTGGTCAATGACTCAGACTTCCAGGGCCCTGGGTGAGGTGTTCTTCTTCCATTTCAACGTGTC
TGTGCTGCCTGTACCCCTGAACCTACCCATGGCCTACTCCTTCCAGTGAATAGGAGAGCCCGCCGTTAT
GCCAGATTGGGAAAGTTTTCGTGGAGAAGTCCAGGAGTTACAGCGGTGTCTCCATCCAGTACAAGCTGC
AGCCCTCAGCACCAACTGCAGTGCCCTAGGTGTGGTCACTCAACAGAAGACACCTCAGGGACCCCTATA
TGTAATGACACGGAGGCCCTGCGGCGACCTGAGTGTACCGAGCTTCACTACACAGTGGTAGCCACTGAC
CGGACAGCCCGCAGGCAGACCCAGGCTTCGTTAGTCGTCACAGTGGAGGGACATACATTGCAGAAGAAG
TGGGCTGCCCCAAGTCTGTGCAGTAAACAAGAGGCGACCTGAGTGTGAGGAGTGTGGTGGCCTGGGTTCC



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TCCAAC TGGCAGATGTGAGTGGCGTCAGGGAGATGGTAAAGGGATCACCAGGAAC TCTCCACCTGTTCT
 CCTAGCAC CAGGACCTGTCTGATGGCCACTGTGATGCTCTGGAGAGCCGGGATATCAACATTTGCCCC
 AGGACTGTCTCCGTGGCCCAATTGTTGGCGGCATGAGCGAGGGGAGCGCCAGGGGATTAAGCCGGCTA
 TGGCATCTGCAACTGTTCCCTGATGAGAAGAAGTGTCTTCCGAGCCAGAGGACAGCCAGGGCCATTG
 TGCGATGAGCTGTGCCGTACGGTCATCACAGCCGCTGTCTCTTCTCCTCATAATCTCTGTCTGTCTG
 CCACCTTCTGCATCCACCGCTACCACAAGCATGCGCACAAGCCACCCATCGCGTCAGCCGAAATGACCTT
 CTGCCGGCCGGCCAGGGCTTCCAATCAGCTATTCTTCTCGGGCACCCGCGCCCTCACTGGACTCC
 ATGGAGAACCAGGTCTCTGTGGACTCTTCAAGATCCCGGAGGATCCGAAGTGGGAATTTCTCGGAAGA
 ACTTAGTCTTGGGAAAACCCTGGGAGAAGCGAGTTTGGAAAAGTAGTCAAGGCCACAGCCTTCCGTCT
 GAAAGGCCGGCAGGATACACCACAGTGGCTGTGAAAATGCTGAAAGAAAACGCCTCCAGAGTGAAC TA
 CGAGACCTGCTCTGAGTTCAACCTTCTGAAACAAGTCAACCATCCACATGTCATCAAGTTGTACGGG
 CTTGCAGCCAGGATGGGCCACTTCTTCTATTGTGGAGTATGCAAAGTATGGATCCCTGCGGGGTTCT
 GCGGGACAGCCGAAGATCGGGCTGCCTATGTGAGCAGTGGAGGCAGCCGAATTCAGCTCCCTGGAC
 CACCCAGACGAAAGGTGCTGACCATGGGCGACCTCATCTCTCGCCTGGCAGATCTCGAGGGTATGC
 AGTACTTGGCTGAAATGAAGCTCGTACATCGAGACTTAGCTGCCAGAAACATCTTGGTGGCAGAGGGACG
 GAAGATGAAGATCTCTGACTTTGGGCTGTCCCGAGATGTTTATGAAGAAGATTCTATGTGAAGAAAAGC
 AAGGGCCGGATTCCCGTCAAATGGATGGCAATCGAGTCTCTCTTCGATCACATCTATACCACTCAAAGT
 ATGTGTGGTCTTTGGAGTGTGCTATGGGAGATTGTGACCCTGGGAGGCAACCCCTACCTGGAATTCC
 TCCTGAACGACTCTTCAACCTTCTGAAGACAGGCCACAGGATGGAGAGCCAGACAAC TCGACGAGGAA
 ATGTACCGCTGATGTGCTGAGTGTGGAAGCAGGAGCCGGACAAGAGGCCAGTATTTGCTGACATCAGCA
 AGGATCTGGAGAAGATGATGGTCAAAGCAGAGACTACTTGGACTGGCTGCATCCACCCCTTCCGACTC
 ACTGCTATGACGATGGGCTCTCGGAAGAGGAGACGCCCTGGTGGACTGTAAAGTGTCCCTCCCTCCCG
 CGCTCCCTCCCTCCACATGGATTGAAAACAAC TCTATGGCATGTCAGACCCGAACTGGCTGGAGAGA
 GTCCTGTACCAC TACGAGAGCCGATGGCACTAGCACTGGGTTCCAAGATATGCAAATGATAGTGATATA
 TGCTAACTGGATGGTTTACCCTCAGCGGCAAAATTAATGGACACATTTGATAGT TAA

ACGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-RsrII

ACCN:

NM_012643

Insert Size:

3348 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_012643.2](#), [NP_036775.2](#)

RefSeq Size: 5478 bp

RefSeq ORF: 3348 bp

Locus ID: 24716

UniProt ID: [G3V9H8](#)

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 (1) represents the longer transcript and encodes the longer 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.