

## Product datasheet for **RN206244**

### **Egfr (NM\_031507) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Egfr (NM_031507) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Egfr
Synonyms:	ErbB-1; ERBB1; Errp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN206244 representing NM_031507 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGACCCTCAGGGACTGCGAGAACCAAGCTACTGCTGTGCTGGCTGCGCTCTGCGCCGAGGTGGG  
CGCTGGAGGAAAAGAAAGTTTGCCAAGGCACAAGTAACAGGCTCACCAACTAGGCACCTTTGAAGACCA  
CTTTCTGAGCCTCCAGAGGATGTTCAACAACCTGTGAAGTGGTCCCTGGAACTTGAAATCACCTATGTG  
CAAAGGAATTATGACCTTTCCTTCTAAAGACCATCCAGGAGGTGGCTGGCTATGTTCTCATTGCCCTGA  
ACACCGTGGAGAGAATCCCTTTGGAGAACCTGCAGATCATCAGGGGAAATGCTCTCTACGAAAACACCTA  
CGCCTTAGCCGTCTGTCCAACCTATGGAACCAACAAAACCTGGGCTTAGGGAACTGCCATGCGGAACTTA  
CAGGAAATTTGATCGGTGCTGTGCGATTTAGCAACAACCCCATCCTCTGCAATATGGAGACCATCCAGT  
GGAGGGACATCGTCCAAGATGCTTTCTGAGCAACATGTCAATGGACGTACAGCGCCACCTGACGGGCTG  
CCCGAAATGTGATCCGAGCTGTCCCAATGGAAGCTGTGGGGAAGAGGAGAGGAGAACTGCCAGAAATTG  
ACCAAAATCATCTGCGCCAGCAATGTTCCCGCGTGTGCTGGCAGGTCCCTAGCGACTGTGCCACA  
ACCAAGTGTGCCGAGGGTGTACAGGGCCAGAGAGTACTGTCTGGTCTGCCACAGTTCGAGATGA  
AGCCACGTGCAAAGACACCTGCCACCACCTCATGCTGTACAACCCACCACGTACCAAGATGGATGTC AAC  
CCTGAGGGGAAGTACAGCTTTGGTGCCACCTGTGTGAAGAAATGCCCCAGAACTACGTGGTGACAGATC  
ACGGCTCGTGTGTCGGGCTGTGGCCAGACTACTATGAAGTAGAAGAAGATGGAGTCAGCAAGTGTA  
AAAATGTGACGGGCCCTGCCGAAAGTTTGCAATGGCATAGGCATTGGTGAATTTAAAGACACACTCTCC  
ATAAATGTACAAACATCAAACACTTCAAGTACTGCACTGCCATCAGTGGGGACCTCCACATCTGCCAG  
TGGCCTTAAGGGGGATTCTTTCACCCGCACTCCTCTAGACCCACGGGAACTAGAAATTTCAA  
TGTGAAGGAAATAACAGGGTTTTGCTGATTAGGCTTGGCCTGAAAACCTGGACTGACCTCCATGCTTTT  
GAGAACCTAGAAATAATTCGTGGCAGAACAAGCAACATGGTCAGTTTTCTGCGGTTGTGCGCCTGA  
ACATAACATCGCTGGGGTTGCGTTCCCTCAAGGAGATCAGTGATGGGGATGTGATTATTTCTGGGACCG  
AAATTTGTGCTACGCAAACTATAAACTGGAAAAAATCTTCGGGACGCCCAATCAAAGACCAAATC  
ATGAACAACAGAGCTGAAAAGGACTGCAAGGCCACGAACCACGTCTGTAATCCTTTATGCTCCTCGGAAG



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GCTGCTGGGGCCCTGAGCCACGGACTGTGTCTCTGCCAGAATGTGAGCAGAGGCAGGGAGTGCCTGGA  
 CAAGTGCAACATCCTGGAGGGGGAACCGAGGGAGTTTGTGAAAAATCTGAATGCATCCAGTGCCATCCA  
 GAATGTCTGCCCCAGACCATGAACATCACCTGTACAGGCCGGGGCCAGACAACCTGCATCAAGTGTGCC  
 ACTATGTTGATGGTCCCCACTGTGTCAAGACCTGCCCTTCGGGCATCATGGGGGAGAACAACACCCTGGT  
 CTGGAAGTTTGCAGATGCCAATAACGTCTGCCACCTCTGCCATGCAAACCTGTACCTATGGATGTGCTGGG  
 CCAGGCCCTTAAAGGATGTCAACAACCAGAAGGGCCAAAGATCCCATCCATCGCCACTGGGATTGTGGGTG  
 CCTCCTCTTTCATAGTAGTGGTGGCCCTTGGGATCGGCCTCTTCATGCGTGCAGTCAGCTTGTCCGAAA  
 ACGTACACTACGCCCTGCTTCAAGAGAGAGAGCTCGTGGAACCTCTCACACCCAGCGGAGAAGCTCCG  
 AACCAAGCCCACTTGAGGATATTAAGGAAACAGAATTCAAAAAGATCAAAGTTCCTGGTTCAGGAGCAT  
 TTGGCACAGTGTATAAGGGTCTCTGGATCCCAGAAGGCGAGAAAGTAAAAATCCCTGTGGCCATCAAGGA  
 GTTAAGAGAAGCCACATCTCCAAAGCCAAACAAGGAAATCCTTGATGAAGCCTACGTGATGGCCAGTGTG  
 GACAACCCTCATGTATGCCGCTCTGGGCATCTGTCTGACCTCCACTGTCCAGCTCATTACACAACCTCA  
 TGCCCTATGGTTGCCCTCTGGACTATGTCCGAGAACATAAGGACAACATTGGCTCCCAGTACCTACTCAA  
 CTGGTGTGTGCAGATTGCAAAGGGCATGAACTACCTGGAAGACCGCGCTTTGGTACACCGTGACTTGGCA  
 GCCAGGAATGTACTGGTAAAGACACCACAGCATGTCAAGATCACAGATTTTGGACTGGCCAAACTGCTTG  
 GTGCTGAGGAGAAAGAATACCATGCAGAGGGGGCAAAGTGCCTATCAAGTGGATGGCTTTGGAATCAAT  
 TTTACACCGAATTTATACACACCAAGCGACGTCTGGAGCTATGGAGTCACCGTGTGGGAACTGATGACC  
 TTTGGTCCAAGCCTTATGATGGGATCCCTGCAAGTGAGATCTCATCCATCCTAGAGAAAGGAGAGCGCC  
 TTCCACAGCCACCTATCTGCACCATCGACGTCTACATGATCATGGTCAAGTGTGGATGATAGATGCTGA  
 TAGCCGCCCAAAGTTCGGAGAGTTGATTCTCGAATTCCTCAAAATGGCCAGAGACCCACAGCGCTACCTT  
 GTTATCCAGGGGGATGAAAGGATGCATTGCGGAGCCCTACAGACTCCAACCTTTTACCGAGCCCTGATGG  
 AGGAGGAGGACATGGAAGACGTAGTTGATGCTGATGAATACCTCATCCCACAGCAAGGCTTCTTCAACAG  
 CCCATCCAGTCAAGGACTCCACTCTTGAGCTCTGAGTGCAAATAGCAACAGTCCACTGTGGCTTGC  
 ATTAATAGAAATGGGAGCTGCCGTGTCAAAGAAGACGCCTTCTTGCAACGGTATAGCTCCGATCCCACCA  
 GCGTCTGACAGAGGACAACATAGATGACACATTCCTTCCGTGCCTGAATATATAAACCAATCTGTTC  
 CAAGAGGCCGGCTGGCTCTGTGCAGAACCAGTCTATCACAATCAGCCCTGCATCCAGCTCCTGGAAGA  
 GACCTGCATTATCAAAATCCCCATAGCAATGCGGTGAGCAACCCTGAGTATCTCAACACTGCCAGCCGA  
 CCTGCCTCAGTAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG  
 CAACCTGACTACCAGCAGGACTTCTTTCCAAAGAAGCCAAGCCGAATGGCATCTTTAAGGGCCCCACA  
 GCTGAAAATGCAGAGTACCTGCGGGTGGCACCGCCAAGCAGTGAAGTTAGTGGAGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_031507

**Insert Size:**

3630 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\\_031507.1](#), [NP\\_113695.1](#)

**RefSeq Size:** 4161 bp

**RefSeq ORF:** 3630 bp

**Locus ID:** 24329

**Cytogenetics:** 14q22

**Gene Summary:** promotes cell proliferation and differentiation; mediates GPCR regulated induction of protein synthesis [RGD, Feb 2006]