

Product datasheet for **RR206244**

Egfr (NM_031507) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Egfr (NM_031507) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Egfr
Synonyms:	ErbB-1; ERBB1; Errp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206244 representing NM_031507 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGACCCTCAGGGACTGCGAGAACCAAGCTACTGCTGTGCTGGCTGCGCTCTGCGCCGAGGTGGG
CGCTGGAGGAAAAGAAAGTTTGCCAAGGCACAAGTAACAGGCTCACCCAAGTGGACCTTTGAAGACCA
CTTTCTGAGCCTCCAGAGGATGTTCAACAAGTGAAGTGGTCTTGGAACTTGGAAATCACCTATGTG
CAAAGGAATTATGACCTTCTCTTAAAGACCATCCAGGAGGTGGCTGGCTATGTTCTCATTGCCCTGA
ACACCGTGGAGAGAATCCCTTTGGAGAACCTGCAGATCATCAGGGGAAATGCTCTCTACGAAAACACCTA
CGCCTTAGCCGTCTGTCCAACATATGGAACCAACAAAAGTGGGCTTAGGGAACTGCCATGCGGAACTTA
CAGGAAATTTGATCGGTGCTGTGCGATTTAGCAACAACCCCATCCTCTGCAATATGGAGACCATCCAGT
GGAGGGACATCGTCCAAGATGCTTTCTGAGCAACATGTCAATGGACGTACAGCGCCACCTGACGGGCTG
CCCGAAATGTGATCCGAGCTGTCCCAATGGAAGCTGTGGGGAAGAGGAGAGGAGAACTGCCAGAAATG
ACCAAAATCATCTGCGCCAGCAATGTTCCCGCGTGTGCTGGCAGGTCCCTAGCGACTGTGCCACA
ACCAAGTGTGCCGAGGGTGTACAGGGCCAGAGAGTACTGTCTGGTCTGCCACAGTCCGAGATGA
AGCCACGTGCAAAGACACCTGCCACCACTCATGCTGTACAACCCACACGTACCAAGATGGATGTC AAC
CCTGAGGGGAAGTACAGCTTTGGTGCCACCTGTGTGAAGAAATGCCCCAGAACTACGTGGTGACAGATC
ACGGCTCGTGTGTCGGGCTGTGGCCAGACTACTATGAAGTAGAAGAAGATGGAGTACGAAAGTGTA
AAAATGTGACGGGCCCTGCCGAAAGTTTGAATGGCATAGGCATTGGTGAATTTAAAGACACACTCTCC
ATAAATGTACAAACATCAAACACTTCAAGTACTGCACTGCCATCAGTGGGGACCTCCACATCTGCCAG
TGGCCTTAAGGGGGATTCTTCCACCCGACTCCTCTAGACCCACGGGAACTAGAAATTTCAAAC
TGTGAAGGAAATAACAGGGTTTTGCTGATTGAGGCTTGGCTGAAAAGTGGACTGACCTCCATGCTTTT
GAGAACCTAGAAATAATTCGTGGCAGAACAAGCAACATGGTCAGTTTTCTGCGGTTGTGCGCCTGA
ACATAACATCGCTGGGGTTGCGTTCCCTCAAGGAGATCAGTGATGGGGATGTGATTATTTCTGGGACCG
AAATTTGTGCTACGAAACACTATAAACTGGAAAAAACTCTCGGGACGCCCAATCAAAGACCAAATC
ATGAACAACAGAGCTGAAAAGGACTGCAAGGCCACGAACCACGTCTGTAATCCTTTATGCTCCTCGGAAG



[View online »](#)

GCTGCTGGGGCCCTGAGCCACGGACTGTGTCTCTGCCAGAATGTGAGCAGAGGCAGGGAGTGCCTGGA
CAAGTGCAACATCCTGGAGGGGGAACCGAGGGAGTTTGTGAAAAATCTGAATGCATCCAGTGCCATCCA
GAATGTCTGCCCCAGACCATGAACATCACCTGTACAGGCCGGGGCCAGACAACCTGCATCAAGTGTGCC
ACTATGTTGATGGTCCCCACTGTGTCAAGACCTGCCCTTCGGGCATCATGGGGGAGAACAACACCCTGGT
CTGGAAGTTTGCAGATGCCAATAACGTCTGCCACCTCTGCCATGCAAACCTGTACCTATGGATGTGCTGG
CCAGGCCTTAAAGGATGTCAACAACCAGAAGGGCCAAAGATCCCATCCATCGCCACTGGGATTGTGGGTG
GCCTCCTTTCATAGTAGTGGTGGCCCTTGGGATCGGCCTTTCATGCGTCGACGTCAGCTTGTCCGAAA
ACGTACACTACGCCGCTGCTTCAAGAGAGAGAGCTCGTGGAACTCTCACACCCAGCGGAGAAGCTCCG
AACCAAGCCCACTTGAGGATATTAAGGAAACAGAATTCAAAAAGATCAAAGTTCCTGGTTCAGGAGCAT
TTGGCACAGTGTATAAGGGTCTCTGGATCCCAGAAGGCGAGAAAGTAAAAATCCCTGTGGCCATCAAGGA
GTTAAGAGAAGCCACATCTCCAAAGCCAACAAGGAAATCCTTGATGAAGCCTACGTGATGGCCAGTGTG
GACAACCCTCATGTATGCCGCTCTGGGCATCTGTCTGACCTCCACTGTCCAGCTCATTACACAACCTCA
TGCCCTATGGTTGCTCCTGGACTATGTCCGAGAACATAAGGACAACATTGGCTCCCAGTACCTACTCAA
CTGGTGTGTGCAGATTGCAAAGGGCATGAACTACCTGGAAGACCGCGCTTGGTACACCGTGACTTGGCA
GCCAGGAATGACTGGTAAAGACACCACAGCATGTCAAGATCACAGATTTTGGACTGGCCAAACTGCTTG
GTGCTGAGGAGAAAGAATACCATGCAGAGGGGGCAAAGTGCCTATCAAGTGGATGGCTTTGGAATCAAT
TTTACACCGAATTTATACACACCAAAGCGACGTCTGGAGCTATGGAGTCACCGTGTGGGAACTGATGACC
TTTGGGTCGAAGCCTTATGATGGGATCCCTGCAAGTGAGATCTCATCCATCCTAGAGAAAGGAGAGCGCC
TTCCACAGCCACCTATCTGCACCATCGACGTCTACATGATCATGGTCAAGTGTGGATGATAGATGCTGA
TAGCCGCCAAAGTTCGAGAGTTGATTCTCGAATTCCTCAAAATGGCCAGAGACCCACAGCGCTACCTT
GTTATCCAGGGGGATGAAAGGATGCATTTGCCGAGCCCTACAGACTCCAACCTTTTACCGAGCCCTGATGG
AGGAGGAGGACATGGAAGACGTAGTTGATGCTGATGAATACCTCATCCCACAGCAAGGCTTCTTCAACAG
CCCATCCAGTCAAGGACTCCACTCTTGAGCTCTCTGAGTGCAAATAGCAACAGTTCCTGCTGGCTTGC
ATTAATAGAAATGGGAGCTGCCGTGTCAAAGAAGACGCCTTCTTGCAACGGTATAGCTCCGATCCCACCA
GCGTCCTGACAGAGGACAACATAGATGACACATTCCTTCCCGTGCCTGAATATATAAACCCTGTTCC
CAAGAGGCGGCTGGCTCTGTGCAGAACCAGTCTATCACAATCAGCCCTGCATCCAGCTCCTGGAAGA
GACCTGCATTATCAAAATCCCCATAGCAATGCGGTGAGCAACCCTGAGTATCTCAACACTGCCAGCCGA
CCTGCCTCAGTAGTGGGTTTACAGCTCTGCCCTCTGGATCCAGAAAGGCAGCCACCAAATGAGCCTGGA
CAACCCTGACTACCAGCAGGACTTCTTCCAAAGAAGCCAAGCCGAATGGCATCTTTAAGGGCCCCACA
GCTGAAAATGCAGAGTACCTGCGGGTGGCACCGCCAAGCAGTGAGTTTAGTGGAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206244 representing NM_031507
 Red=Cloning site Green=Tags(s)

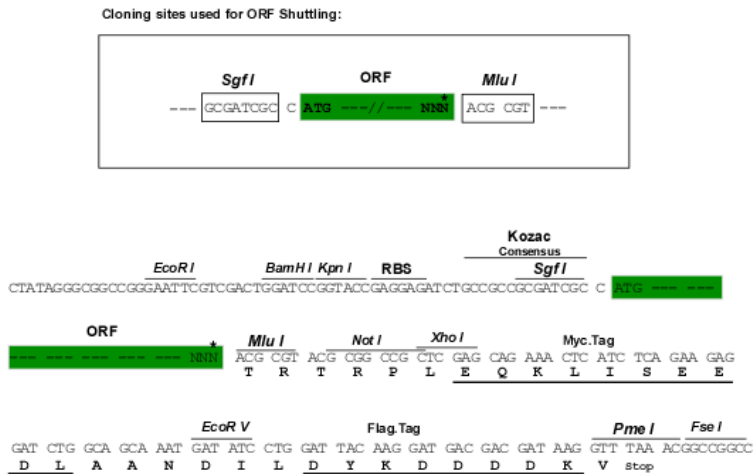
MRPSGTARTKLLLLLALCAAGGALEEKVKCQGTSNRLTQLGTFEDHFLSLQRMFNCEVVLGNLEITYY
 QRNYDLSFLKTIQEVAGYVLIALNTVERIPLNLQIIRGNALYENTYALAVLSNYGTNKTGLRELPMRNL
 QEILIGAVRFSNNPILCNMETIQWRDIVQDVFLSNMSMDVQRHLTGCPKCDPSCPNGSCWGRGEENCQKL
 TKIICAQQCSRRRCRGRSPSDCCHNQCAAGCTGPRESCLVCHRFRDEATCKDTCPLMLYNPTTYQMDVN
 PEGKYSFGATCVKKCPRYVVTDHGSCVRACGPDYVEEEDGVSKCKCDGPCRKVCNGIGIGEFKDTLS
 INATNIKHFKYCTAISGDLHILPVAFKGSFTRTPPLDPRELEILKTVKEITGFLLIQAWPENWTDLHAF
 ENLEIIRGRTKQHGQFSLAVVGLNITSLGLRSLKEISDGDVVIISGNRNLKYANTINWKKLFGTPNQTKI
 MNNRAEKDCKATNHVCNPLCSSEGCWGPPTDCVSCQNVSRGECVDKCNILEGEPREFVENSECIQCHP
 ECLPQTMNITCTGRGPDNCIKCAHYVDGPHCVKTCPSGIMGENNTLVWKFADANNVCHLCHANCTYGCAG
 PGLKGCQQPEGPKIPSIATGIVGGLLFI VVVALGIGLFMRRRQLVRKRTLRRLLQERELVEPLTPSGEAP
 NQAHLRILKETEFKKIKVLGSGAFGTVYKGLWIPEGEKVKIPVAIKELREATSPKANKEILDEAYMASV
 DNPVHCRLLGICLTSTVQLITQLMPYGLLDYVREHKDNIGSQYLLNWCVQIAKGMNYLEDRLVHRDLA
 ARNVLVKTPQHVKITDFGLAKLLGAEKEYHAEGGKVPKWMALLESILHRIYTHQSDVWSYGVTVWELMT
 FGSKPYDGIPASEISSILEKGERLPQPPICTIDVYMIMVKCWMIDADSRPKFRELILEFSKMARDPQRYL
 VIQGDERMHLPSPTDSNFYRALMEEEDMEDVVDADAYLIPQQGFFNSPSTSRTPLLSSLSANSNSSTVAC
 INRNGSCRVKEDAFQRYSSDPTSVLTEDNIDDTFLPVPEYINQSVPKRPAQSVQNPVYHNQPLHPAPGR
 DLHYQNPNSNAVSNPEYLNTAQPTCLSSGFDSSALWIQKGSQMSLDNPDYQQDFFPKEAKPNGIFKGP
 AENAEYLRVAPPSSSEFSGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

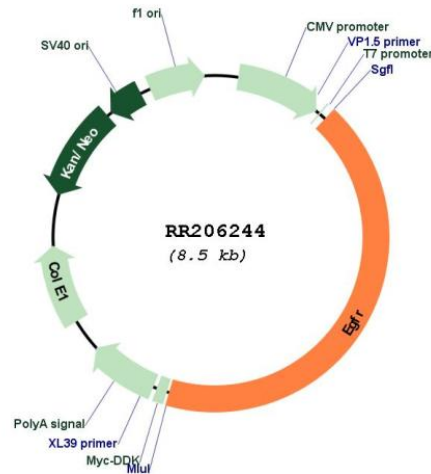
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_031507

ORF Size: 3627 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.

RefSeq: [NM_031507.1](#), [NP_113695.1](#)

RefSeq Size: 4161 bp

RefSeq ORF: 3630 bp

Locus ID: 24329

Cytogenetics: 14q22

MW: 134.9 kDa

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