

Product datasheet for **RN210488**

Errfi1 (NM_001014071) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Errfi1 (NM_001014071) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Errfi1
Synonyms:	gene 33; Ralt; RGD1307599; Xxx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN210488 representing NM_001014071
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAACAGCAGGAGTTGCTGCTCAGGATATTCGAGTCCATTAAAACTGGATTTCTCCATAATGGCC
 AGGCTTTGGGGAATATGAAGACCTGCTGGGGCAGTCGCAATGAGTTTGAAAAGAATTTTTAAATATCGA
 TCCAATAACCATGGCCTACAATCTGAACCTCCCCTGCTCCGGAGCATCTAACAACCTCGGATGTGCTTCT
 CCGTCCGCTCCAGGGAGCGGTCACTTCTTTGCAGAGCGTGGTCCATCTCCAAAGTCAAGCTTCCCCCTC
 TTGTTATCCCACCAAGTAAAGCTCGGGACAGCGTGAAGAGGATCAAGTTCTGTGTGGTTTTAAGAACT
 CTCAGTGAATGGGGTGTGCGCTCCACACCTCCACTTACACCCATTCAAAGCTGCTTCCCCGTTTCCC
 TGTGCAGTCCCTGTGATCGCAGTCCCGACCGCTCCACCATTGCCATCTCTGAGGACCCATCTCTGG
 ATGAGGCCGACTGTGAGGTGGAATTTCTAACCAGTGCAGATACAGACTTCCTTTTGAAGACTGCGTGCC
 TTCGATTTCAAATACGATGTTCTTGGCAGGCGAAGCTTCCGTGGGTGCGGACAGATCAATTATGCGTAT
 TTTGACAGCCCAACTGTTTCTGTGGCAGATCTTAGCTGTGCATCTGACCAGAACAGAGTTGTTCCAGATC
 CAAACCTCCCCCGCTCAAAGCCATCGCAGATTAAGGAGGTCTCACTCAGGACCAGCCGGTCTGTTTAA
 CAAGCCAGCCATCCGGATATCTAGCTGCACACACAGAGCCTCTCCTAGCTCGGATGAAGACAAGCCTGAG
 ATCCCCGCCCGGGTTCCTATACCTCCAGGCCAGCCAAGCCAGACTACAGAAGGTGGTCAGCAGAAGTGA
 CCTTAACACATACAGTGAAGATAGGCCTCCCAAAGTCCCCCGAGAGAACCTTTGTCTCGGAGTAA
 CTCCCGTACCCCAAGTCTAAAGCCTCCGCTTACCTCAATGGGGTCATGCCTCCAACACAGAGCTTT
 GCCCCGACCCCAAGTATGTCAGCAGCAAAGCCCTGCAGAGACAGAGCAGCGAAGGGTCTGCCAAGGCC
 CCTGCATCTGCCATCATTGAGAATGGGAAGAAGGTCACTCCACGCATTATTACCTACTACCTGAGAG
 ACCGCCATACCTTGACAAATATGAGAAGTATTTTAGGGAAGCAGAAGAAGCAAACCCCAAGCACCCAGATT
 CAGCCATTACCTGCTGCCTGTGGTATGGTCTCTGCCACAGACAAGCTGGCCTCCAGAATGAAATGGATG
 TGGGCGGCCACGGGAAGCGCAAACACTTATCTACGTGGTTTCTCCG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001014071

Insert Size: 1380 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_001014071.1](#), [NP_001014093.1](#)

RefSeq Size: 3007 bp

RefSeq ORF: 1380 bp

Locus ID: 313729

UniProt ID: [P05432](#)

Cytogenetics: 5q36

Gene Summary: Negative regulator of EGFR signaling in skin morphogenesis. Acts as a negative regulator for several EGFR family members, including ERBB2, ERBB3 and ERBB4. Inhibits EGFR catalytic activity by interfering with its dimerization. Inhibits autophosphorylation of EGFR, ERBB2 and ERBB4. Important for normal keratinocyte proliferation and differentiation. Plays a role in modulating the response to steroid hormones in the uterus. Required for normal response to progesterone in the uterus and for fertility. Mediates epithelial estrogen responses in the uterus by regulating ESR1 levels and activation. Important for regulation of endometrium cell proliferation. Important for normal prenatal and perinatal lung development (By similarity). [UniProtKB/Swiss-Prot Function]