

## Product datasheet for **RR210488**

### **Errfi1 (NM\_001014071) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RR210488 representing NM\_001014071  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAACAGCAGGAGTTGCTGCTCAGGATATTCGAGTCCATTAAAACTGGATTTCTCCATAATGGCC  
 AGGCTTTGGGGAATATGAAGACCTGCTGGGCGAGTCGCAATGAGTTTGAAAAGAATTTTTAAATATCGA  
 TCCAATAACCATGGCCTACAATCTGAACCTCCCCTGCTCCGGAGCATCTAACAAACCCTCGGATGTGCTTCT  
 CCGTCCGCTCCAGGGAGCGGTCACTTCTTTGCAGAGCGTGGTCCATCTCCAAAGTCAAGCTTGCCCCCTC  
 TTGTTATCCCACCAAGTAAAGCTCGGGACAGCGTGAAGAGGATCAAGTTCTGTGTGGTTTTAAGAACT  
 CTCAGTGAATGGGGTGTGCGCTCCACACCTCCACTTACACCCATTCAAAGCTGCTTCCCCGTTTCCC  
 TGTGCAGTCCCTGTGATCGCAGTCCCGACCGCTCCACCATTGCCATCTCTGAGGACCCATCTCTGG  
 ATGAGGCCGACTGTGAGGTGGAATTTCTAACCAGTGCAGATACAGACTTCCTTTTGAAGACTGCGTGCC  
 TTCCGATTTCAAATACGATGTTCTTGGCAGGCGAAGCTTCCGTGGGTGCGGACAGATCAATTATGCGTAT  
 TTTGACAGCCCAACTGTTTCTGTGGCAGATCTTAGCTGTGCATCTGACCAGAACAGAGTTGTTCCAGATC  
 CAAACCCTCCCCCGCTCAAAGCCATCGCAGATTAAGGAGGTCTCACTCAGGACCAAGCCGGTCTGTTTAA  
 CAAGCCAGCCATCCGGATATCTAGCTGCACACACAGAGCCTCTCCTAGCTCGGATGAAGACAAGCCTGAG  
 ATCCCCGCCCGGGTTCCTATACCTCCAGGCCAGCCAAGCCAGACTACAGAAGGTGGTCAGCAGAAGTGA  
 CCTCTAACACATACAGTATGAAGATAGGCCTCCCAAAGTCCCCCGAGAGAACCTTTGTCTCGGAGTAA  
 CTCCCGTACCCCAAGTCTAAAGCCTTCCGTCTTACCTCAATGGGGTCTGCTCCAACACAGAGCTTT  
 GCCCCGACCCCAAGTATGTCAGCAGCAAAGCCCTGCAGAGACAGAGCAGCGAAGGGTCTGCCAAGGCC  
 CCTGCATCTGCCATCATTGAGAATGGGAAGAAGGTGAGTCCACGCATTATTACCTACTACCTGAGAG  
 ACCGCCATACCTTGACAAATATGAGAAGTATTTTAGGGAAGCAGAAGAAGCAAACCAAGCACCCAGATT  
 CAGCCATTACCTGCTGCCTGTGGTATGGTCTCTGCCACAGACAAGCTGGCCTCCAGAATGAAATGGATG  
 TGGGCGGCCACGGGAAGCGCAAACACTTATCTACGTGGTTTCTCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210488 representing NM\_001014071  
 Red=Cloning site Green=Tags(s)

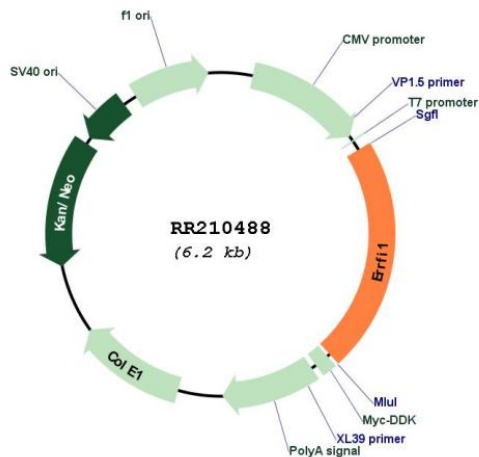
MSTAGVAAQDIRVPLKTGFLHNGQALGNMKTWCWSRNEFEKNFLNIDPITMAYNLNSPAPEHLTTLGCAS  
 PSAPGSGHFFAERGPSPKSSLPPLVIPPSESSQREEDQVLCGFKKLSVNGVCASTPPLTPIQSCSSPFP  
 CAAPCDRSSRPLPPLPISEDPDLDEADCEVEFLTSADTDFLEDCVPSDFKYDVPGRRSFRGCGQINAY  
 FDSPTVSVADLSCASDQNRVVPDPNPPPPQSHRRLRRSHSGPAGSFNKPAIRISSCTHRASPSDEDKPE  
 IPPRVPIPPRPAKPDYRRWSAEVTSNTYSDEDRPPKVPVPPREPLSRNSRTPSPKSLPSYLVNMPPTQSF  
 APDPKYVSSKALQRSSEGSAPKPCILPIIENGGKVSSTHYLLPERPPYLDKYEKVFREAEANPSTQI  
 QPLPAACGMVSATDKLASRMKMDVGGHGKRLKHLSYVVSP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001014071

**ORF Size:** 1377 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\\_001014071.1](#), [NP\\_001014093.1](#)

**RefSeq Size:** 3007 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 313729

**UniProt ID:** [P05432](#)

**Cytogenetics:** 5q36

**MW:** 49.9 kDa

**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]