

## Product datasheet for **MR207372**

### **Errfi1 (NM\_133753) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Errfi1 (NM_133753) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Errfi1
Synonyms:	1300002F13Rik; AI788755; Mig-6; Mig6; RALT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207372 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAACAGCAGGAGTTGCTGCTCAGGATATTCGAGTCCATTAATAACTGGATTTCTCCATAATGGTC  
 AGGCCTTGGGGAATATGAAGTCCTGCTGGGGCAGTCACAGTGAGTTTGAAAATAACTTTTTAAATATTGA  
 TCCAATAACCATGGCCTACAATCTGAATCCCCTGCTCAGGAGCACCTAACAACTGTTGGATGTGCTGCT  
 CGGTCTGCTCCAGGGAGCGGCCACTTCTTTGCAGAGTGTGGTCCATCTCCAAGGTCAAGCTTGCCCCCTC  
 TTGTTATCTACCAAGTGAAGCTCGGGACAGCGTGAAGAGGATCAAGTTATGTGTGTTTTAAGAACT  
 CTCAGTGAATGGGTCTGCACTCCACACCTCCACTTACACCCATTAAGAGCTGCCCTTCCCCTTTCCCC  
 TGTGCGGCTCTGTGTGATCGGGTTCTCGGCCGCTCCCGCCACTGCCATCTCTGAAGACCTATGTGTGG  
 ATGAGGCCGACAGTGAGGTAGAGCTTCTAACCACAGCTCAGACACAGACTTGCTTTTAGAAGACTGCG  
 GCCTTCAGATTTCAAATACGATGCTCCTGGCAGGCGAGCTTCCGTGGGTGCGGCCAGATCAACTATGCA  
 TATTTTGACAGCCAACTGTTTCTGTGGCAGATCTTAGCTGTGCATCTGACCAGAACAGAGTTGTTCCAG  
 ACCCAAACCTCCCCACCTCAAAGCCATCGCAGATTAAGGAGGTCTCACTCAGGACCAGCTGGGTCAAT  
 TAACAAGCCAGCCATTCCGATATCTAGCTGCACACACAGAGCTTCTCCTAGCTCTGATGAAGACAAGCT  
 GAGGTCCCTCCCAGGTTCTATACTCCTAGGCCAGCAAAGCCAGACTATAGACGGTGGTCAGCAGAAG  
 TGACCTCAACACCTACAGTGATGAAGTAGGCCCTCCAAAGTCCCCCGAGAGAACCTTTGTCTCGGAG  
 TAACTCCCGTACCCCAAGTCTAAAAGCCTTCCGTCTTACCTCAATGGGGTCATGCCCAACACAGAGC  
 TTCGCTCCTGACCCCAAGTATGTCAGCAGCAAAGCCCTGCAGAGACAGAGCAGCGAAGGATCTGCCAACA  
 AGGTTCTTGCATCTGCCATTATTGAAAATGGGAAGAAGGTTAGCTCAACGCATTACTACTACC  
 TGAGAGGCCACCGTACCTGGACAAATATGAAAAGTATTTTAAGGAAGCAGAAGAAACAAACCCCAAGCACC  
 CAAATTCAGCCATTACCTGCTGCCTGTGGTATGGCCTCTGCCACAGAAAAGCTGGCTCCAGAATGAAAA  
 TAGATATGGGTAGCCACGGGAAGCGCAAACACTTATCCTACGTGGTTTCTCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207372 protein sequence  
 Red=Cloning site Green=Tags(s)

MSTAGVAAQDIRVPLKTGFLHNGQALGNMKSCWGSHEFENNFLNIDPITMAYNLNSPAQEHLTTVGCAA  
 RSAPGSGHFFAECGSPRSSLPLLVISPSESSQREEDQVMCGFKKLSVNGVCTSTPPLTPIKSCSPFP  
 CAALCDRGSRLPLPLPISEDLVDEADSEVELLTTSSDTDLLLEDSDAPSDFKYDAPGRRSFRGCGQINYA  
 YFDSPTVSVADLSCASDQNRVVPDPNPPPPQSHRRLRRSHSGPAGSFNKPAIRISSCTHRASPSDEDKP  
 EVPPRPVIPPAPKPDYRRWSAEVTSNTYSDEDRPPKVPPREPLSRNSRTPSPKSLPSYLVMPPTQS  
 FAPDPKYVSSKALQRQSSEGSANKVPCILPIIENGKVSSTHYLLPERPPYLDKYEKYFKEAETNPST  
 QIQPLPAACGMASATEKLASRMKIDMGSHGKRKHL SYVVSP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_133753

**ORF Size:** 1386 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\\_133753.2](#)
**RefSeq Size:** 3034 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 74155

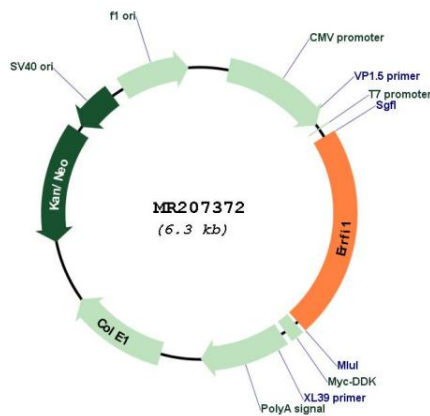
**UniProt ID:** [Q99JZ7](#)

**Cytogenetics:** 4 E2

**MW:** 50.1 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. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207372