

## Product datasheet for **MG219122**

### Il17rd (NM\_134437) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Il17rd (NM_134437) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Il17rd
Synonyms:	2810004A10Rik; AI428510; Sef; Sef-S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG219122 representing NM\_134437  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCCCCGTGGCTGCAGCTCTGCTCCTTCTTCTCACTGTCAACGCCTGTCTCAACGGCTCGCAGCTGG  
CAGTGGCCCGGGCGGCTCCGGCCGCGAGGGGCGGGACACCTGTGGCTGGAGGGGAGTGGGGCCGGC  
CAGCAGGAACAGCGGACTGCACAACATCACCTTACAGATACGACAACCTGTACCACCTACTTGAATCCC  
GGGAAAGCATGCGATTGCTGATGCTCAGAACATCACCATCAGCCAGTACGCTTGCCACGACCAGGTGGCAG  
TCACCATTCTTTGGTCCCAGGGGCCCTTGGCATTGAATTCCTAAAAGGATTCCGAGTATCCTGGAGGA  
GCTGAAGTCGGAGGGCAGACAGTCCAACAGCTGATTCTAAAGGACCCCAAACAGCTCAACAGCAGCTTC  
AGAAGGACTGGAATGGAATCTCAGCCTTCTCCTGAATATGAAATTTGAGACGGATTACTTTGTAAGATTG  
TCCCTTCCCTTCCATTAATAAAGCAATTACCATCCCTTCTTCTCAGAACACGGGCTGTGACCT  
GTTGTTACAACCTGACAACCTGGCTGTAAAGCCTTCTGGAAGCCTCGAAACCTGAATATCAGCCAGCAT  
GGTTCTGACATGCACGTGCTTCCGACCATGCCCGCAGAACTTCGGCTTCCGTGGCTTCCATGTTCTCT  
ATAAGCTCAAGCAGCAAGGCCCTTTCAGGCGGAGGACTTCGAGGCAGGACCAGAATACAGAGACAACCAG  
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AAAGCTGCTCAGTATGTGGTGAAGTCAGTGCAGTCTCCCTGGGCTGGACCATCAGAGCTGTGGCCATCA  
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AAATATATATTCACATTTAGATGAAGAAAGCCGGAGTCGTCCACATACGCTGCGGCTCTCCCCAGAGAC  
AGGCTCCGGCTCAGCCCAAGTCTTCTCTGCTACTCCAATAAAGATGGCCAGAATCACATGAACGTGG  
TCCAGTGTTCGCCTATTTCTGCAAGATTTCTGTGGCTGTGAGGTGGCTCTGGACTTGTGGGAAGATTT  
CAGCCTCTGCAGAGAGGGGCAGAGAGAATGGGCCATTCAAGAAGATCCACGAGTCCAGTTTCCATCATTGTC  
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CTCATCTGCCGACTGCGCAAGTTCATCGCCGTCTACTTCGATTATTCCTGTGAAGGGGATGTACCCTGC  
AGCCTGGACCTGAGCACCAAGTACAAGCTCATGGACCCTTCTGAGCTCTGTGCCATCTGCACTCAG  
GAGAGCAGGAGGTGCTGGGTGAGCAGCCAGGCCACAGCAGCAGAAGGAACTACTCCGGAGCAAATCGGG  
CCGCTCCCTGTATGTTGCCATTTGCAACATGCACCAGTTTATTGATGAGGAGCCTGACTGGTTTGAAG  
CAGTTTATACCCTTCAAACATCCCCTGTGCGTTACCAGGAGCCAGTCCCTGGAGAAATTTGACTCAGGCT  
TGGTTTTAAATGATGTCATAAGCAAACAGGGCCAGAGAGTACTTCTGTGCGAAAGTCGAGGCTTGTGT  
ACTTGGGGCCGCTGGGCCAGCCGACTCTTATTCATACCTGGAGAGTCAGCATGTAGGCCTGGACCAAGAC  
ACTGAGGCCAGCCCTCCTGTGATAGTGCCCTGCCTTGACGCCCTGTTACACGCAGTAAAGCTGGCA  
GTCCCTCAGAGATGCCACGGGACTCAGGCATATATGATTCTTCTGTACCCTCATCAGAGCTCTCTGCC  
TCTGATGGAGGGACTCTCTCCGGATCAGATAGAAACATCTTCTGTACCAGAGTGTATCTTCTCCTCT  
GGCCTAGGTGAGGAGGACCCCTACCCTCCCTCCAAGCTCTTGCCTCTGGGGTGTCCAGAGAACATG  
GTTGCCACAGCCACACTGACGAAGTCAAGCGCTTGTCTCTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219122 representing NM\_134437  
 Red=Cloning site Green=Tags(s)

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MAPWLQLCSFFFTVNACLNGSQLAVAAGGSGRARGADTCGWRGVGPASRNSGLHNITFRYDNCTTYLNPG
GKHAIADAQNITISQYACHDQVAVTILWSPGALGIEFLKGFVRVILEELKSEGRQCQLILKDPKQLNSSF
RRTGMESQPFLNMKFETDYFVKIIVPFPSIKNESNYHPFFFRTRACDLLLQPDNLACKPFWKPRNLNISQH
GSDMHVSFDHAPQNFGRGFHVLKLEKHEGPFRRRTCRCQDQNTETTSCLLQNVSPGDYIIELVDDSNTRR
KAAQYVVKSVQSPWAGPIRAVAITVPLVVISAFATLFTVMCRKKQENIYSHLDEESPESTYAAALPRD
RLRPQPKVFLCYSNKDGQNHMNVVQCFAYFLQDFCGCEVALDLWEDFSLCREGQREWAIQKIHESQFIIV
VCSKGMKYFVDKKNFRHKGSRGEAQGEFFLVAVAAIAEKLRQAKQSSSAALRKFIAVYFDYSCEGDVPC
SLDLSTKYKLMHDLPELCAHLHSGEQEVLGQHPGHSSRRNYFRSKSGRSLYVAICNMHQFIDEEDWFEK
QFIPFQHPPVRYQEPVLEKFDGLVNDVIKPGPESDFCRKVEACVLGAAGPADSYSYLESQHVGLDQD
TEAQPSCDSAPALQPLLHAVKAGSPSEMPRDSGIYDSSVPSELPLMEGLSPDQIETSSLTESVSSSS
GLGEEDPPTLPSKLLASGVSRHEGCHSHTDELQALAPL
  
```

TRTRPLE - GFP Tag - V

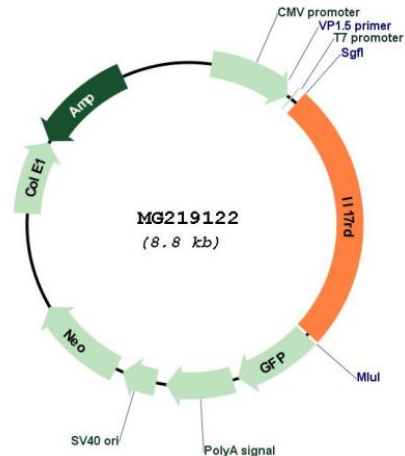
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_134437

ORF Size: 2214 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\\_134437.3](#), [NP\\_602319.1](#)

RefSeq Size: 8220 bp

RefSeq ORF: 2217 bp

Locus ID: 171463

UniProt ID: [Q8JZL1](#)

Cytogenetics: 14 A3

Gene Summary: Feedback inhibitor of fibroblast growth factor mediated Ras-MAPK signaling and ERK activation. May inhibit FGF-induced FGFR1 tyrosine phosphorylation. Regulates the nuclear ERK signaling pathway by spatially blocking nuclear translocation of activated ERK (By similarity). Mediates JNK activation and may be involved in apoptosis. Might have a role in the early stages of fate specification of GnRH-secreting neurons.[UniProtKB/Swiss-Prot Function]