

## Product datasheet for **MR210170**

### Ltf (NM\_008522) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ltf (NM_008522) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ltf
Synonyms:	Csp82; Lf; MMS10R; Ms10r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210170 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGGCTGCTCATCCCTCCTTGATATTTCTTGAGGCCCTTGGACTCTGTCTAGCTAAGGCAACA  
 TCGATGGTGTGCTGTGTCAAATTCGAGGAAGAAAAATGTTAAGGTGGCAGAACGAGATGAGAAA  
 GGTGGCCCGCCGCTCAGTTGTGTCAAGAAATCCTCCACCCGCCAGTGCATCCAGGCCATTGTGAC  
 AAACAGAGCTGATGCCATGACTCTTGATGGTGGCACTATGTTTCGATGCAGGAAAGCCCCCTA  
 CAAACTGCGACCTGTGGCAGTGAAGTCTACGGGACCAAGAGCAGCCCCGGACTCACTACTATG  
 CGGTAGCAGTCGTGAAACAGCAGTAACCTTTCATCTGAACCAACTCCAAGGCCTGAGGTCCTG  
 CCACACCCGGCATTGGCAGGAGTGGGGGTGAAAAATCCCTATAGGGACACTTCGTCCATACCTG  
 AATTGGAATGGGCCACCTGCATCCCTTGGAAAGCGGTATCCAAGTCTTCTCAAAGAGCTGTG  
 TTCCCGGTGCCAAAAGGATAGATCCCCAACCTGTGTAGCTCGTGTGCAGGACAGGACCAACA  
 AATGTGCCTCTTCCCCGAGGAGCCATACTCAGGTTATGCTGGAGCCTTGAGGTGTCTGAGAG  
 ACAATGCTGGAGATGTGGCTTTTACCAGAGGAAGCAGCGTATTTGAGGAGTTACCAAATAA  
 AAGCCGAAAGGGACCAAGCTACAAGCTGCTCTGCCAGACAACCTGGAAGCCGGTGACAGAA  
 TACAAGGAGTGCCACCTGGCCCAAGTCCCTTCACATGCTGTGCTATCCCGAAGCACGAATGAC  
 AAAGAAGAGGCCATCTGGGAGCTTCTCCGCCAGTCACAGGAGAAGTTGGAAAAAACAAGCATC  
 GGGATCCAGCTCTTTGCCTCCCCCTCGGGACAGAAGGACCTGCTGTTCAAGGAGTCTGCCAT  
 TGCTTTGTGAGGTTCCCAGAAGGTAGATGTAGGGCTCTACCTGACCTTCAGCTACACCACAT  
 CCATACAGAACCTGAATAAAAAGCAGCAGGATGTGATAGCCTCAAAGGCCGGGTACATGGTGT  
 GCCGTGGCAGTGAGGAAAGCACAAGTGTGATCAGTGGAACAGAGCAAGCAGGACAGGTCACCT  
 GCATCTCATTCCCCACCAGGAAGCTGCATTGTGCGCAATCATGAAGGGAGATGCTGATGCCAT  
 GAGCCTGGATGGAGGCTATATCTACTGCGGGCAAGTGCGGTTTAGTCCAGTCTTGGCAGAGA  
 ACCAGAAATCCTCAAAAGCAATGGCTTGATTGTGTGAACAGACCAGTGGAAGGTACCTTGCT  
 GTAGCAGCAGTTAGAAGAGAAGATGTGGCTTACCTGGAGCTCTTTGAGAGGCAAGAAGTCT  
 GCCACTGCCAGGACCGCAGGCTGGAACATCCCCATGGGCTGCTTTGCTAACCAGACCAGATC  
 CTGCAAATTTAATGAGTTCTTTAGCCAAAGCTGTGCCCTGGTGTGACCCCAATCCAATCTC  
 TGTGCCCTGTGATTGGTGATGAGAAGGGTGAACAAGTGTGCTCCCAACAGCAAAGAGATA  
 CCAAGGCTACTGCGGCTTTAAGGTGTCTGGCTGAGAAGGCAGGAAATGTTGCATTTGAAG  
 GACTCCACTGTCTTGCAGAATACTGACGGGAAGAACAAGTGAAGAGTGGGCTAGGAACCTT  
 AAAGCTGAAGGACTTTGAGCTTTTGTGCCTTGTGACACCCGAAACCTGTGACTGAGGCTA  
 AGAACTGCCACCTAGCCATAGCCCCAAACCATGCTGTAGTGTCTCGGACAGACAAGGTGGA  
 AGTCTTTCAGCAGGTGCTGCTGACCAACAGGTTCAAGTTGGGAGAAATGGACAGAGGTGT  
 CCAGGAGAGTTTTGCCTGTTCCAGTCTAAAA CCAAAAACCTTCTGTTCAATGACAACACT  
 GAGTGTCTGGCCAAGATCCCCGGCAAAACCACATCGGAGAA GTATCTGGGAAAGGAGTAC  
 GTCATAGCGACCGAGCGCCTGAAGCAGTGTCCAGCTCCCCACTCTGGAA GCCTGCGCTTT  
 TCTTACCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210170 protein sequence  
 Red=Cloning site Green=Tags(s)

MRLLI<sup>+</sup>PSLIFLEALGLCLAKATTVRWCAVSNSEEEKLRWQ<sup>+</sup>NEMRKVGGPPLSCVKKSS<sup>+</sup>TRQCIQAI<sup>+</sup>VTN  
 RADAM<sup>+</sup>TL<sup>+</sup>DGGT<sup>+</sup>MF<sup>+</sup>DAGK<sup>+</sup>PPY<sup>+</sup>KLR<sup>+</sup>PVAAE<sup>+</sup>VYGT<sup>+</sup>KE<sup>+</sup>QPR<sup>+</sup>THYYA<sup>+</sup>VAV<sup>+</sup>VKNSS<sup>+</sup>NFHL<sup>+</sup>NL<sup>+</sup>QGL<sup>+</sup>RSCH<sup>+</sup>TGI<sup>+</sup>GRS  
 AGW<sup>+</sup>KI<sup>+</sup>IG<sup>+</sup>TL<sup>+</sup>RPY<sup>+</sup>LN<sup>+</sup>WNG<sup>+</sup>PPAS<sup>+</sup>LEE<sup>+</sup>AV<sup>+</sup>SK<sup>+</sup>FF<sup>+</sup>SK<sup>+</sup>SCV<sup>+</sup>PGA<sup>+</sup>QK<sup>+</sup>DR<sup>+</sup>FP<sup>+</sup>NL<sup>+</sup>CSS<sup>+</sup>CAG<sup>+</sup>TG<sup>+</sup>ANK<sup>+</sup>CASS<sup>+</sup>PEEP<sup>+</sup>YS<sup>+</sup>GY  
 AGAL<sup>+</sup>RCL<sup>+</sup>RD<sup>+</sup>NAG<sup>+</sup>DVAF<sup>+</sup>TR<sup>+</sup>GST<sup>+</sup>VFEEL<sup>+</sup>PN<sup>+</sup>KAER<sup>+</sup>DQ<sup>+</sup>YK<sup>+</sup>LL<sup>+</sup>CP<sup>+</sup>DNT<sup>+</sup>WK<sup>+</sup>PV<sup>+</sup>TEY<sup>+</sup>KECH<sup>+</sup>LA<sup>+</sup>QV<sup>+</sup>PSH<sup>+</sup>AV<sup>+</sup>SR<sup>+</sup>ST<sup>+</sup>ND  
 KEEA<sup>+</sup>IWELL<sup>+</sup>RQ<sup>+</sup>SQEK<sup>+</sup>FG<sup>+</sup>KK<sup>+</sup>QAS<sup>+</sup>GF<sup>+</sup>QL<sup>+</sup>FAS<sup>+</sup>PSG<sup>+</sup>QK<sup>+</sup>DLL<sup>+</sup>FKESA<sup>+</sup>IG<sup>+</sup>FVR<sup>+</sup>VP<sup>+</sup>QK<sup>+</sup>V<sup>+</sup>DVGL<sup>+</sup>YL<sup>+</sup>TF<sup>+</sup>SY<sup>+</sup>TTS<sup>+</sup>I<sup>+</sup>Q<sup>+</sup>N<sup>+</sup>LN  
 KK<sup>+</sup>Q<sup>+</sup>Q<sup>+</sup>D<sup>+</sup>VI<sup>+</sup>ASK<sup>+</sup>AR<sup>+</sup>VT<sup>+</sup>WCA<sup>+</sup>VG<sup>+</sup>SEE<sup>+</sup>KR<sup>+</sup>K<sup>+</sup>CD<sup>+</sup>Q<sup>+</sup>W<sup>+</sup>NRAS<sup>+</sup>R<sup>+</sup>GR<sup>+</sup>VT<sup>+</sup>CIS<sup>+</sup>F<sup>+</sup>PT<sup>+</sup>TED<sup>+</sup>CI<sup>+</sup>VAIM<sup>+</sup>KGD<sup>+</sup>AD<sup>+</sup>AM<sup>+</sup>SL<sup>+</sup>DGG<sup>+</sup>Y<sup>+</sup>I<sup>+</sup>Y<sup>+</sup>TA  
 GK<sup>+</sup>CGL<sup>+</sup>VP<sup>+</sup>VLA<sup>+</sup>EN<sup>+</sup>Q<sup>+</sup>SS<sup>+</sup>KN<sup>+</sup>GL<sup>+</sup>DC<sup>+</sup>V<sup>+</sup>NR<sup>+</sup>PE<sup>+</sup>GY<sup>+</sup>LAVA<sup>+</sup>AV<sup>+</sup>RR<sup>+</sup>ED<sup>+</sup>AG<sup>+</sup>FT<sup>+</sup>W<sup>+</sup>SSL<sup>+</sup>RG<sup>+</sup>KS<sup>+</sup>SCH<sup>+</sup>TAV<sup>+</sup>DR<sup>+</sup>TAG<sup>+</sup>WN<sup>+</sup>I<sup>+</sup>PM<sup>+</sup>G  
 LLAN<sup>+</sup>Q<sup>+</sup>TR<sup>+</sup>SCK<sup>+</sup>F<sup>+</sup>NEFF<sup>+</sup>SQ<sup>+</sup>SCAP<sup>+</sup>GAD<sup>+</sup>PK<sup>+</sup>SNL<sup>+</sup>CAL<sup>+</sup>CI<sup>+</sup>GDE<sup>+</sup>KEN<sup>+</sup>KCAP<sup>+</sup>NSK<sup>+</sup>ERY<sup>+</sup>Q<sup>+</sup>GY<sup>+</sup>TGAL<sup>+</sup>RCL<sup>+</sup>AE<sup>+</sup>KAG<sup>+</sup>N<sup>+</sup>VAF  
 LK<sup>+</sup>D<sup>+</sup>ST<sup>+</sup>VL<sup>+</sup>QNT<sup>+</sup>DG<sup>+</sup>KN<sup>+</sup>TEE<sup>+</sup>WAR<sup>+</sup>NL<sup>+</sup>KL<sup>+</sup>KDF<sup>+</sup>ELL<sup>+</sup>CL<sup>+</sup>DD<sup>+</sup>TR<sup>+</sup>KP<sup>+</sup>VT<sup>+</sup>EAK<sup>+</sup>NCH<sup>+</sup>LAI<sup>+</sup>AP<sup>+</sup>NH<sup>+</sup>AV<sup>+</sup>SRT<sup>+</sup>DK<sup>+</sup>VE<sup>+</sup>VL<sup>+</sup>QQ<sup>+</sup>VLL  
 DQ<sup>+</sup>V<sup>+</sup>Q<sup>+</sup>FGR<sup>+</sup>NG<sup>+</sup>Q<sup>+</sup>RC<sup>+</sup>PG<sup>+</sup>E<sup>+</sup>CL<sup>+</sup>FQ<sup>+</sup>SK<sup>+</sup>T<sup>+</sup>KNLL<sup>+</sup>FND<sup>+</sup>NTE<sup>+</sup>CL<sup>+</sup>AK<sup>+</sup>IP<sup>+</sup>GK<sup>+</sup>TT<sup>+</sup>SE<sup>+</sup>YL<sup>+</sup>G<sup>+</sup>KEY<sup>+</sup>VI<sup>+</sup>ATER<sup>+</sup>LK<sup>+</sup>QC<sup>+</sup>SS<sup>+</sup>PLLE  
 ACA<sup>+</sup>FL<sup>+</sup>TQ

TRTRPLEQKLI<sup>+</sup>SEEDLAANDILDYK<sup>+</sup>DDDDK<sup>+</sup>V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_008522

**ORF Size:** 2124 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\\_008522.1](#), [NM\\_008522.2](#), [NM\\_008522.3](#), [NP\\_032548.2](#)

**RefSeq Size:** 2742 bp

**RefSeq ORF:** 2124 bp

**Locus ID:** 17002

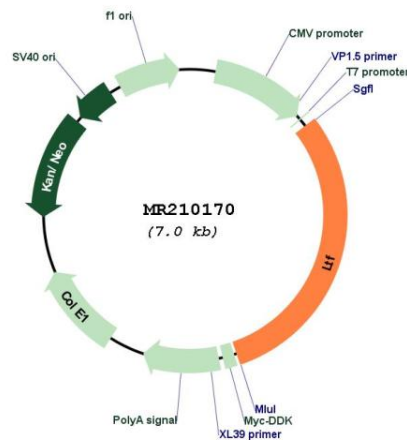
**UniProt ID:** [P08071](#)

**Cytogenetics:** 9 60.79 cM

**MW:** 77.9 kDa

**Gene Summary:** Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR210170