

## Product datasheet for **RG207238**

### LYRIC (MTDH) (NM\_178812) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LYRIC (MTDH) (NM_178812) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LYRIC
Synonyms:	3D3; AEG-1; AEG1; LYRIC; LYRIC/3D3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207238 representing NM\_178812  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGCACGGAGCTGGCAGGACGAGCTGGCCCAGCAGGCCGAGGAGGGCTCGGCCGGCTGCGGGAAA  
 TGCTCTCGGTCGGCTTAGGCTTTCTGCGCACCGAGCTGGGCTCGACCTGGGGCTGGAGCCGAAACGGTA  
 CCCC GGCTGGGTGATCCTGGTGGCACTGGCGCGCTCGGGCTGCTGCTGTTTCTGCTGGGCTACGGC  
 TGGGCCGCGGCTTGCGCCGGCTCCCGCAAAAAGCGGAGGAGCCGCCCGCAAGCGGGAGGAGCGCGCG  
 CCGTGCCGGCCGCGGCCCGACGACCTGGCCTTGTGAAGAATCTCCGGAGCGAGGAACAGAAGAAGAA  
 GAACCGGAAGAACTGTCCGAGAAGCCAAACCAATGGCGGACTGTTGAAGTGGCTGAGGGTGAAGCT  
 GTTCGAACACCTCAAAGTGAACAGCAAAGCAGCCACCAGAGATTGACAAGAAAAATGAAAAGTCAAAGA  
 AAAATAAGAAGAAATCAAAGTCAGATGCTAAAGCAGTGCAAAACAGTTCACGCCATGATGAAAAGGAAGT  
 TGATGAAGGAGCCTGGGAACTAAAATTAGTCACAGAGAGAAACGACAGCAGCGTAAACGTGATAAGGTG  
 CTGACTGATTCTGGTTCAATTGGATTCAACTATCCCTGGGATAGAAAAATACCATCACAGTTACCACCGAGC  
 AACTTACAACCGCATCATTTCTGTTGGTTCCAAGAAGAATAAAGGTGATTCTCATCTAAATGTTCAAGT  
 TAGCAACTTTAAATCTGGAAAAGGAGATTCTACACTTCAGGTTTCTTCAGGATTGAATGAAAACCTCACT  
 GTCAATGGAGGAGGCTGGAATGAAAAGTCTGTAAACTCTCCTCACAGATCAGTGCAGGTGAGGAGAAGT  
 GGAACCTCCGTTTACCTGCTTCTGCAGGAAAGAGGAAAGCTGAGCCATCTGCCTGGAGTCAAGACACTGG  
 AGATGCTAATACAAATGGAAAAGACTGGGAAGGAGTTGGAGTGACCGTTCAATATTTCTGGCATTGGG  
 TCTACTGCTGAGCCAGTTTCTCAGTCTACCCTTCTGATTATCAGTGGGATGTTAGCCGTAATCAACCT  
 ATATCGATGATGAATGGTCTGGTTAAATGGTCTGTCTTCTGATCCCAACTCTGATTGGAATGCACC  
 AGCAGAAGAGTGGGCAATTGGGTAGACGAAGAAGAGCTTCACTTCTAAAGTCCAGGAACCAATTCTCT  
 GATGATCAAAAAGTCTCAGATGATGATAAAGAAAAGGGAGAGGGAGCTTCCAACCTGGGAAATCCAAAA  
 AGAAAAAAGAAAAAGAAGAAGCAAGGTGAAGATAAAGTCTACTGCACAGGACACAGAAGAAATTAGAAAA  
 AGAGATTAGAGAAGACCTTCCAGTGAATACCTCTAAAACCGTCCAAAACAGGAAAAAGCTTTTCTTGG  
 AAGACCATAAGCACTAGTATCCAGCCGAAGTACTCGTCAAAAATAGCCAGCCTATCAAGACTCTTCCAC  
 CTGCTACTTCTACCGAGCCATCTGTAATCTTATCAAAAAGTATTCTGACAAGAGCTCTTCCAAGTGCC  
 GCCAATACTACAAGAGACAGATAAATCCAAGTCAAATACCAAGCAAAAATAGTGTGCCTCCTTACAGACC  
 AAGTCTGAACTAGCTGGGAATCTCCCAACAAAATAAAAAAGAAGAAAAAAGCCAGACGAGAAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207238 representing NM\_178812  
 Red=Cloning site Green=Tags(s)

MAARSWQDELAQQAEEGSARLREMLSVGLGFLRTELGLDLGLEPKRYPGWVILVGTGALGLLLLLFLLYG  
 WAAACAGSRKKRRSPPRKREEAAVPAAPDDLALLKNLRSEEQKKNRKLLSEKPKPNGRTVEVAEGEA  
 VRTPQSVTAKQPPEIDKKNEKSKKNNKSKSDAKAVQNSSRHDGKEVDEGAWETKISHREKRQQRKRDV  
 L TDSGSLDSTIPGIENITVTTTEQLTTASFPVGSKKNKGDShLNVQVSNFKSGKGDSTLQVSSGLNENLT  
 VNGGGWNEKSVKLSSQISAGEEKWNSVSPASAGKRKAEPsAWsQDTGDANTNGKDWGRSWSDRSIFSGIG  
 STAEPVSQSTTSDYQWDVSRNQPYIDDEWSGLNGLSSADPNsDWNAPAEWGNWVDEERASLLKSQEP  
 DDQKVSDDKEKEGEGALPTGKSKKKKKKKKQGEDNSTAQDTEELEKEIREDLPVNTSKTRPKQEKAFSL  
 KTI STSDPAEVLVKNSQPIKTLPPATSTEPsvILSKSDSDKSSSQVPPILQETDKSKSNTKQNSVPPSQT  
 KSETSWESPKQIKKKKKARRET

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_178812

**ORF Size:** 1746 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\\_178812.2](#), [NP\\_848927.1](#)

**RefSeq Size:** 3729 bp

**RefSeq ORF:** 1749 bp

**Locus ID:** 92140

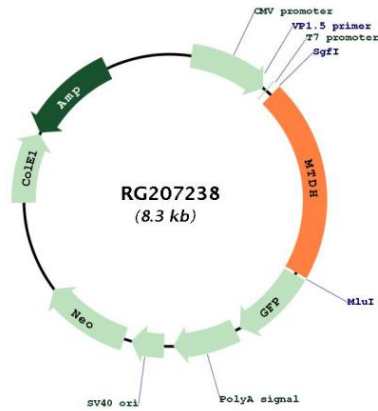
**UniProt ID:** [Q86UE4](#)

**Cytogenetics:** 8q22.1

**Protein Families:** Transmembrane

**Gene Summary:** Downregulates SLC1A2/EAAT2 promoter activity when expressed ectopically. Activates the nuclear factor kappa-B (NF-kappa-B) transcription factor. Promotes anchorage-independent growth of immortalized melanocytes and astrocytes which is a key component in tumor cell expansion. Promotes lung metastasis and also has an effect on bone and brain metastasis, possibly by enhancing the seeding of tumor cells to the target organ endothelium. Induces chemoresistance.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207238