

Product datasheet for **MG210954**

Lonp2 (NM_025827) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lonp2 (NM_025827) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lonp2
Synonyms:	1300002A08Rik; AU015403; Lonp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210954 representing NM_025827
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTCCGTGAGCCCCATCCAGATCCCCAGCCGCCTTCGCTGCTGTTGACCCACGAGAGTGTGTTGC
 TGCTGGCTCCACTATGCGCACAAAGTGTGGACACGGCCGCAACTTGCAGCTGGTGGAGCCGCTTGCT
 CAAGGGCACGTCGTTGCAGAGCACCATTCTAGGAGTCATCCCAACACACCCGACCCGGCCAGCGACAG
 CAGGACCTGCCACCATTGCACAGAATTGGAACGGCTGCCCTGGCAGTTCAGGTTGTGGGAGTAATTGGC
 CCAAACCACACTACACTTACTGATCACAGGCCTGTGCCGTTCCAGATTGTGCAGGTCTTAAAAGAGAA
 GCCATATCCCGTGGCTGAAGTGGAGCAGCTGGACCGACTTGAGGAATTTCCCAATATCTGCAAAAAGCAGG
 GAGGAGCTGGGAGAGCTGTCAGAGCAATTCTACAGATACGCAGTGCAGTTGGTTGAAATGTTGGATATGT
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 AACTTCAATTATTCGAACAAGCAACAAAGAGAAGCTCCAGATCTTAGATGCCGTGAGCCTGGAGGATCGG
 TTCAAGATGACCATACCTCTGCTTGTAGACAGATTGAAGGTCTGAAATTAATTCAGAAGACTCGCAAAC
 CTAACAAGATGACGACAAGAGGGTTATAGCAATACGCCCATCAGGAGGATTCCACACATCCCAGGAAC
 TTTAGAAGATGAGGAGGAGGAAGAAGATAATGATGACATTGTCATGCTGGAGAAAAAATAAGAACATCT
 AGTATGCCAGAACAGGCTCATAAAGTCTGTGTCAAGGAGATAAAAAGACTCAAAAAATGCCTCAGTCAA
 TGCTGAATATGCTCTGACTAGAAATATTTGGAACCTTATGGTGGAGCTTCTTGGAAACAAAAGTACAAC
 TGATCGCTGGACATTCGGGCAGCCCGGATTCTTGGACAATGACCATTATGCCATGGAAAACTGAAG
 AGGAGGGTTTTGGAATACTTGGCTGTGAGACAAGTGAAGAACTTGAAGGGCCCAATCCTCTGTTTTG
 TTGGCCCGCCTGGAGTAGGCAAAACAAGTGTGGGAGATCCGTGGCCAAGACTCTGGTGGGAGTCCA
 CAGGATTGCACCTTGGGGGTGTGTGTGACCACTGACATTTCGAGGGCACAGGCGGACCTATGTGGGCACT
 ATGCCTGGTCTGATCATCAATGGCTTGAAGACCGTTGGGGTAAACAATCCAGTGTTCCTATTGGATGAGG
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 AAACCATAACTTCACAGATCACTATCTAAATGTGGCCTTTGACCTTTCCCAAGTTCTTTTCATAGCAACT
 GCCAACACCCTGCTACTATTCCACCTGCTTGTGGACAGGATGGAGATCATTGAGTTCAGGGTACAGG
 CACAGGAGGAGAAGATAGAGATTGCCACAGGCACCTGATCCCTAAGCAGCTGGAGCAGCAGGCTGAC
 TCCTCAGCAGATTCAGATCCCCAGCACACCCTCTGGCCATCATTACCAGATACACCAGAGAAGCAGGA
 GTCGTTCTCTGGACAGAAAGTTTTGGGGCTATTTGCCGTGCTGTGGCAGTGAAGTTGCAGAAGGCCAGC
 ATAAGGAAGCCAAGCTGGACCGTTCCGATGTGGCTGATGGAGAAGTTGCAAGAACATGTGCTGGAAGA
 TGCAAAAACCTGAATCCATCAGTGACACTGCAGACTTGGCCCTGCCACCTGAAATGCCAATTCGATCGAC
 TCCCATGCCCTGAAAGACATCCTGGGGCCACCCTGTATGAGCTGGAGGTATCTGAGCGTTTGGATCAAC
 CTGGAGTGGCAATAGGGTTAGCATGGACTCCCTTGGGTGGCAAAATCATGTTTGTGGAAGCAAGTAGAAT
 GGACGGTGAAGGCCAACTAACACTGACCGGCCAGCTTGGGGACGTCATGAAGGAGTCTGCCATCTCGCC
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 ACAACACAGACATCCATCTGCACCTCCAGCTGGAGCTGTACAAAAGATGGACCATCTGCTGGTGTAC
 CATAGTAACTTGTCTCGCCTCACTTTTTCAGTGGGCGGCTTGTGCGCTCAGATGTAGCCATGACTGGGGAA
 ATTACGCTGAGAGGGCTTGTCTTCCAGTGGGTGGAATTAAGACAAAGTCTAGCAGCACACCGAGCAG
 GACTGAAGCAGATCATAATCCGCAGAGGAACGAAAAGGACCTTGAAGAGATCCCAGCAACGTCAGACA
 GGATCTAAGTTTTGTTACAGCAAGCTGCCTGGATGAAGTTCTAAATGCAGCTTTTGTGGTGGCTTCTCT
 GTCAAGACCAGACCTGGTCTCATTGACAGCAAATA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210954 representing NM_025827
 Red=Cloning site Green=Tags(s)

MSSVSPIQIPSRLLPLLLTHESVLLPGSTMRTSVDTARNLQLVRSRLLKGTSLQSTILGVIPNTPDPASDT
 QDLPLHRIGTAALAVQVVGSNWPKPHYTLLITGLCRFQIVQVLKEKYPVAEVEQLDRLEEFNICKSR
 EELGELSEQFYRYAVQLVEMLDMSVPAVAKLRRLDNLPREALPDILTSIIRTSNKEKLQILDVLSLEDR
 FKMTIPLLRQIEGLKLLQKTRKPKQDDDKRVIAIRPIRRIPHIPGTLEDEEEEEEDNDIVMLEKKIRTS
 SMPEQAHKVCVKEIKRLKMPQSMPEYALTRNYELMVLPWNKSTTDRLDIRAARILLDNDHYAMEKLLK
 RRVLEYLAVRQLKNNLKGPILCFVGPPGVGKTSVGRSVAKTLGREFHRIALGGVCDQSDIRGHRRTYVGS
 MPGRIINGLKTGVNNPVFLLDEVKLGKSLQGDPAALLEVLDPEQNHNFTHYLNVAFDLSQVLFIAI
 ANTTATIPPALLDRMEIIQVPGYTQEEKIEIAHRHLIPKLEQHGLTPQQIQIPQHHTLAIITRYTREAG
 VRSLDRKFGAICRAVAVKVAEGQHKEAKLDRSDVADGEGCKEHVLEDAKPEISDADLALPPEMPILID
 SHALKDILGPPLYELEVSERLSQPGVAIGLAWTPLGGKIMFVEASRMDGEGQLTLTGQLGDMKESAHLA
 ISWLRSNAKKYHLTNAFGSFDLLDNTDIHLHFPAGAVTKDGPAGVTIVTCLASLFSGRLVRSDVAMTGE
 ITRLGLVLPVGGIKDKVLAHRAGLKQIIPQRNEKDLEEIPSNVRQDL SFVTASCLDEVLNAAFDDGGFP
 VKTRPGLIDSKL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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_025827.3](#), [NP_080103.1](#)

RefSeq Size: 2872 bp

RefSeq ORF: 2559 bp

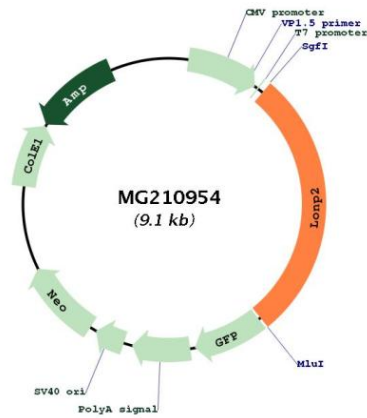
Locus ID: 66887

UniProt ID: [Q9DBN5](#)

Cytogenetics: 8 C3

Gene Summary: ATP-dependent serine protease that mediates the selective degradation of misfolded and unassembled polypeptides in the peroxisomal matrix. Necessary for type 2 peroxisome targeting signal (PTS2)-containing protein processing and facilitates peroxisome matrix protein import. May indirectly regulate peroxisomal fatty acid beta-oxidation through degradation of the self-processed forms of TYSND1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210954