

Product datasheet for **MC205432**

Gale (NM_178389) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gale (NM_178389) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gale
Synonyms: 2310002A12Rik; AI323962
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC027438
 CAGAAACTGGTAGTTAGCTAGTTAGACCCAGGGCTGATTCTGGAACCTCTCCTTAAACTAGGGCTCACCC
 CTACATCTCCAAGATGAAGGTAGGGTTCGAGCATCCAGTTGGAGTGAGGCCCTGAGCAGGAAGCCTCGG
 CCACCTCTGAAACTCTGTCTTCTAAGCAGGCGCCATGGAAAAGGTGCTGGTCACAGGTGGGGCTGGCTAC
 ATCGGCAGCCACACGGTATTGGAGCTGCTGGAGGCAGGCTACTCACCTGTGGTCATTGACAACTCCATA
 ACGCCATTCTGGGAGAAGACTCCATGCCTGAGAGCCTGCGCCGGTCCAGGAGTTGACAGGCCGCTCTGT
 GGAGTTTGAGGAGATGGACATCTGGACCAGGCAGCCCTACAGCACCTCTTAAAGAAGCAGAGCTTAAAG
 GCCGTCATCCACTTTGCTGGCCTCAAGGCTGTGGGCGAGTCAGTGCAGAAGCCTCTGGACTACTATAGAG
 TTAACCTAACAGGGACCATCCAGCTTCTAGAGATCATGAGGGCCACGGAGTGAAGAACCTGGTGTTCAG
 CAGCTCAGCCACCGTGTACGGGAACCCCACTACCTGCCTCTGGATGAGGCCACCCACGGGGGCTGT
 ACCAACCCCTACGGCAAGTCCAAGTTCTTCATCGAGGAGATGATCCGGGACCTGTCCGGGCAGACACGG
 CCTGGAACGCCGTGCTGCTTCGGTACTTCAATCCATAGGCGCCACGCCTCTGGGCGCATCGGTGAAGA
 TCCTCAGGGTATTCACCAACCTCATGCCTACGCTCTCCAGGTGGCAATCGGGCGACGAGAGGCCCTG
 AATGTCTTTGGTGATGACTATGCTACAGAGGACGGGACAGGTGTGAGGGATTACATTCACGTGGTGGACC
 TGGCGAAGGGCCATATAGCAGCCTTGAAGAAGCTGAAGGAGCAATGTGGTTGCCGGACCTACAACCTGGG
 CACGGGCACAGGCTACTCTGTCTGCAGATGGTCCAAGCCATGGAGAAAGCCTCAGGGAAGAAGATCCCG
 TACAAGGTGGTGGCAGCGGGAAGGTGATGTGGCGGCTGTTATGCCAACCCAGCCTGGCCATGAGG
 AGCTGGGCTGGACAGCAGCCCTGGGCTGGACAGGATGTGTGAAGATCTGTGGCCTGGCAGAAGCAGAA
 CCCTTCGGGCTTTGGGGCGCAGGCTGAGGACCTCGTTACCATGGACCAGAAAAGAGCAGCTGCCTGCTT
 TCCAGTCTCCACAGGACCTGTACCCTCACACTCTGGGGCCACCTACCTCAAATGCCAGCTGTCTGCTC
 AGCCCTCCAGGCAGGAGACCTCTGGTTCCACTGACCAGAAAAGTCCAGGTCTTTCCAGCCTGTCTCCC
 CACCGAGTTCAGCAGCTCATGTGATCCCGAGCCTTGGGGATGGGGAGGCCAGGGGGTCTGGGACCATA
 GCCTCCCCAGGCACTGATGATTAAGCTTTCCAAAGTATTTAAAATAAAGATGTTTTCTTATCGAGAAA

Restriction Sites: RsrII-NotI
ACCN: NM_178389



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Insert Size:	1044 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>BC027438</u> , <u>AAH27438</u>
RefSeq Size:	1539 bp
RefSeq ORF:	1044 bp
Locus ID:	74246
UniProt ID:	<u>Q8R059</u>
Cytogenetics:	4 D3
Gene Summary:	Catalyzes two distinct but analogous reactions: the reversible epimerization of UDP-glucose to UDP-galactose and the reversible epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine. The reaction with UDP-Gal plays a critical role in the Leloir pathway of galactose catabolism in which galactose is converted to the glycolytic intermediate glucose 6-phosphate. It contributes to the catabolism of dietary galactose and enables the endogenous biosynthesis of both UDP-Gal and UDP-GalNAc when exogenous sources are limited. Both UDP-sugar interconversions are important in the synthesis of glycoproteins and glycolipids. [UniProtKB/Swiss-Prot Function]