

## Product datasheet for **RG220163**

### Galectin 8 (LGALS8) (NM\_201543) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galectin 8 (LGALS8) (NM_201543) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galectin 8
Synonyms:	Gal-8; PCTA-1; PCTA1; Po66-CBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220163 representing NM_201543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAATCCCGTTTGTGGCACCATTCCCTG  
ATCAGCTGGATCCTGGAACCTTGGATTGTGATACGTGGGCATGTTCCCTAGTGACGCAGACAGATTCCAGGT  
GGATCTGCAGAAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTTCAATCCTCGTTTCAA  
AGGGCCGGCTGCATTGTTTGAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCACCTATGACA  
CGCCTTTCAAAAGAGAAAAGTCTTTTGGAGATCGTGATTATGGTGTGAAGGACAAAATCCAGGTGGCTGT  
AAATGGAAAACATACTCTGCTCTATGGCCACAGGATCGGCCAGAGAAAATAGACACTCTGGGCATTAT  
GGCAAAGTGAATATTCACCTCAATTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTC  
TGGAAGTACAGAGATAAGTAGAGAAAATGTTCCAAAGTCTGGCAGCCCCAGCTTAGGCTGCCATTTCGC  
TGCAAGTTGAACACCCCATGGGCCCTGGACGAACTGTCGTGTTAAAGGAGAAGTGAATGCAAAATGCC  
AAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGGATATTGCTCTACACTGAACCCACGGCTGA  
ATATTAAGCATTGTGAAGAAATCTTTTCTTCAGGAGTCTGGGGAGAAGAAGAGAGAAATATTACCTC  
TTTCCCATTAGTCTGGGATGTACTTTGAGATGATAATTTATTGTGATGTTAGAGAATTAAGGTTGCA  
GTAAATGGCGTACACAGCCTGGAGTACAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAA  
TTAATGGAGACATCCACTTACTGGAAGTAAGGAGCTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG220163 representing NM\_201543  
 Red=Cloning site Green=Tags(s)

MLSLNNLQNIYNPVIFVGTIPDQLDPGLIVIRGHVPSDADRQVDLQNGSSMKPRADVAHFHNPRFK  
 RAGCIVCNTLINEKWGREEITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIKPEKIDTLGIY  
 GKVNIHSIGFSFSSDLQSTQASSLELTEISRENVPKSGTPQLRPF AARLNTMPGPGRTVVVKGEVNANA  
 KSFNVDLLAGKSKDIALHLNPRLNIAKAFVRNSFLQESWGEEERNITSFPPSPGMYFEMIIYCDVREFKVA  
 VNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRSW

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_201543

**ORF Size:** 948 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\\_201543.1](#), [NP\\_963837.1](#)

**RefSeq Size:** 2870 bp

**RefSeq ORF:** 954 bp

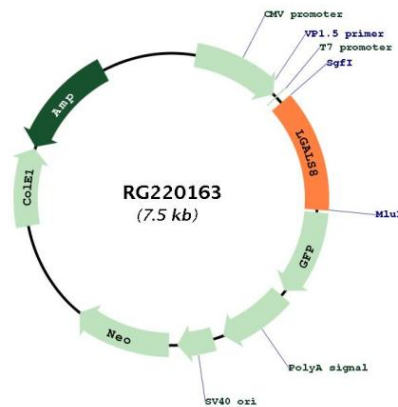
**Locus ID:** 3964

**UniProt ID:** [O00214](#)

**Cytogenetics:** 1q43

**Gene Summary:** This gene encodes a member of the galectin family. Galectins are beta-galactoside-binding animal lectins with conserved carbohydrate recognition domains. The galectins have been implicated in many essential functions including development, differentiation, cell-cell adhesion, cell-matrix interaction, growth regulation, apoptosis, and RNA splicing. This gene is widely expressed in tumoral tissues and seems to be involved in integrin-like cell interactions. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG220163