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Nucleotide

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GenBank

Homo sapiens G protein-coupled receptor 183 (GPR183), mRNA

NCBI Reference Sequence: NM_004951.5

[FASTA](#) [Graphics](#)

Go to:

LOCUS	NM_004951	1685 bp	mRNA	linear	PRI 24-DEC-2022
DEFINITION	Homo sapiens G protein-coupled receptor 183 (GPR183), mRNA.				
ACCESSION	NM_004951				
VERSION	NM_004951.5				
KEYWORDS	RefSeq; MANE Select.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini; Catarrhini; Hominidae; Homo.				
REFERENCE	1 (bases 1 to 1685)				
AUTHORS	Zhao M, Mei Y, Zhao Z, Cao P, Xin Y, Guo Y, Yang M and Wu H.				
TITLE	Abnormal lower expression of GPR183 in peripheral blood T and B cell subsets of systemic lupus erythematosus patients				
JOURNAL	Autoimmunity 55 (7), 429-442 (2022)				
PUBMED	35875859				
REMARK	GeneRIF: Abnormal lower expression of GPR183 in peripheral blood T and B cell subsets of systemic lupus erythematosus patients.				
REFERENCE	2 (bases 1 to 1685)				
AUTHORS	Copperi F, Schleis I, Roumain M, Muccioli GG, Casola S, Klingenspor M, Pfeifer A and Gnad T.				
TITLE	EBI2 is a negative modulator of brown adipose tissue energy expenditure in mice and human brown adipocytes				
JOURNAL	Commun Biol 5 (1), 280 (2022)				
PUBMED	35351968				
REMARK	GeneRIF: EBI2 is a negative modulator of brown adipose tissue energy expenditure in mice and human brown adipocytes. Publication Status: Online-Only				
REFERENCE	3 (bases 1 to 1685)				
AUTHORS	Baek SH, Kim B, Shin JY, Choi SJ, Ahn SH, Choi YS, Kim SM and Sung JJ.				
TITLE	EBI2-expressing B cells in neuromyelitis optica spectrum disorder with AQP4-IgG: Association with acute attacks and serum cytokines				
JOURNAL	J Neuroimmunol 358, 577637 (2021)				
PUBMED	34229205				
REMARK	GeneRIF: EBI2-expressing B cells in neuromyelitis optica spectrum disorder with AQP4-IgG: Association with acute attacks and serum cytokines.				
REFERENCE	4 (bases 1 to 1685)				
AUTHORS	Ruiz F, Wyss A, Rossel JB, Sulz MC, Brand S, Moncsek A, Mertens JC, Roth R, Clottu AS, Burri E, Juillerat P, Biedermann L, Greuter T, Rogler G, Pot C and Misselwitz B.				
CONSRTM	Swiss IBD Cohort Study Group				
TITLE	A single nucleotide polymorphism in the gene for GPR183 increases its surface expression on blood lymphocytes of patients with inflammatory bowel disease				
JOURNAL	Br J Pharmacol 178 (16), 3157-3175 (2021)				
PUBMED	33511653				
REMARK	GeneRIF: A single nucleotide polymorphism in the gene for GPR183 increases its surface expression on blood lymphocytes of patients with inflammatory bowel disease.				
REFERENCE	5 (bases 1 to 1685)				
AUTHORS	Bartlett S, Gemiarto AT, Ngo MD, Sajjir H, Hailu S, Sinha R, Foo CX, Kleynhans L, Tshivhula H, Webber T, Bielefeldt-Ohmann H, West				

NP, Hiemstra AM, MacDonald CE, Christensen LVV, Schlesinger LS, Walzl G, Rosenkilde MM, Mandrup-Poulsen T and Ronacher K.

TITLE GPR183 Regulates Interferons, Autophagy, and Bacterial Growth During Mycobacterium tuberculosis Infection and Is Associated With TB Disease Severity

JOURNAL Front Immunol 11, 601534 (2020)

PUBMED [33240287](#)

REMARK GeneRIF: GPR183 Regulates Interferons, Autophagy, and Bacterial Growth During Mycobacterium tuberculosis Infection and Is Associated With TB Disease Severity.
Publication Status: Online-Only

REFERENCE 6 (bases 1 to 1685)

AUTHORS Benned-Jensen T, Smethurst C, Holst PJ, Page KR, Sauls H, Sivertsen B, Schwartz TW, Blanchard A, Jepras R and Rosenkilde MM.

TITLE Ligand modulation of the Epstein-Barr virus-induced seven-transmembrane receptor EBI2: identification of a potent and efficacious inverse agonist

JOURNAL J Biol Chem 286 (33), 29292-29302 (2011)

PUBMED [21673108](#)

REFERENCE 7 (bases 1 to 1685)

AUTHORS Norregaard K, Benned-Jensen T and Rosenkilde MM.

TITLE EBI2, GPR18 and GPR17--three structurally related, but biologically distinct 7TM receptors

JOURNAL Curr Top Med Chem 11 (6), 618-628 (2011)

PUBMED [21261596](#)

REMARK GeneRIF: REVIEW: functional properties and in vivo biology
Review article

REFERENCE 8 (bases 1 to 1685)

AUTHORS Benned-Jensen T and Rosenkilde MM.

TITLE Structural motifs of importance for the constitutive activity of the orphan 7TM receptor EBI2: analysis of receptor activation in the absence of an agonist

JOURNAL Mol Pharmacol 74 (4), 1008-1021 (2008)

PUBMED [18628402](#)

REMARK GeneRIF: Structural motifs of importance for the constitutive activity of EBI2: analysis of receptor activation in the absence of an agonist.

REFERENCE 9 (bases 1 to 1685)

AUTHORS Rosenkilde MM, Benned-Jensen T, Andersen H, Holst PJ, Kledal TN, Luttichau HR, Larsen JK, Christensen JP and Schwartz TW.

TITLE Molecular pharmacological phenotyping of EBI2. An orphan seven-transmembrane receptor with constitutive activity

JOURNAL J Biol Chem 281 (19), 13199-13208 (2006)

PUBMED [16540462](#)

REMARK GeneRIF: Based on the constitutive signaling and cellular expression pattern of EBI2, it is suggested that it may function in conjunction with BILF1 in the reprogramming of the cell during EBV infection

REFERENCE 10 (bases 1 to 1685)

AUTHORS Birkenbach M, Josefsen K, Yalamanchili R, Lenoir G and Kieff E.

TITLE Epstein-Barr virus-induced genes: first lymphocyte-specific G protein-coupled peptide receptors

JOURNAL J Virol 67 (4), 2209-2220 (1993)

PUBMED [8383238](#)

COMMENT REVIEWED [REFSEQ](#): This record has been curated by NCBI staff. The reference sequence was derived from [AK313443.1](#), [BC020752.1](#) and [AW574697.1](#).

On Nov 22, 2018 this sequence version replaced [NM_004951.4](#).

Summary: This gene was identified by the up-regulation of its expression upon Epstein-Barr virus infection of primary B lymphocytes. This gene is predicted to encode a G protein-coupled receptor that is most closely related to the thrombin receptor. Expression of this gene was detected in B-lymphocyte cell lines and lymphoid tissues but not in T-lymphocyte cell lines or peripheral blood T lymphocytes. The function of this gene is unknown. [provided by RefSeq, Jul 2008].

Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Gene record to access additional publications.

##Evidence-Data-START##

Transcript exon combination :: AK223390.1, BC020752.1 [ECO:0000332]
RNAseq introns :: single sample supports all introns

SAMEA2149004, SAMEA2154361

[ECO:0000348]

##Evidence-Data-END##

##RefSeq-Attributes-START##

MANE Ensembl match :: ENST00000376414.5/ ENSP00000365596.4

RefSeq Select criteria :: based on single protein-coding transcript

##RefSeq-Attributes-END##

COMPLETENESS: full length.

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	614-1680	BC020752.1	614-1680	
	1681-1685	AW574697.1	21-25	c

FEATURES Location/Qualifiers

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[gene](#)

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/note="G protein-coupled receptor 183"

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[exon](#)

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[misc feature](#)

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[exon](#)

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[CDS](#)

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EBV-induced G-protein coupled receptor 2; Epstein-Barr

virus-induced G-protein coupled receptor 2"

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[misc feature](#)

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[misc feature](#)

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[misc feature](#)

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[misc feature](#)

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