

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

Globin Gene Server

RRID:SCR_001480

Type: Tool

Proper Citation

Globin Gene Server (RRID:SCR_001480)

Resource Information

URL: <http://globin.cse.psu.edu/>

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Description: Data and tools for studying the function of DNA sequences, with an emphasis on those involved in the production of hemoglobin. It includes information about naturally-occurring human hemoglobin mutations and their effects, experimental data related to the regulation of the beta-like globin gene cluster, and software tools for comparing sequences with one another to discover regions that are likely to play significant roles.

Abbreviations: Globin Gene Server

Resource Type: analysis service resource, data analysis service, data or information resource, database, narrative resource, production service resource, resource, service resource, software resource, source code, training material

Defining Citation: [PMID:11857738](#), [PMID:11480780](#), [PMID:9799599](#), [PMID:9576329](#), [PMID:8088828](#)

Keywords: dna sequence, hemoglobin, mutation, globin gene cluster, sequence comparison, functional genomics, gene, alignment, genetic analysis, variant, gene expression, protein, thalassemia, globin gene, genome, pairwise alignment, multiple alignment, annotation, sequence analysis, dna

Funding: NLM R01LM05773;
NLM R01LM05110;
NIDDK DK27635

Availability: Free, Freely available

Resource Name: Globin Gene Server

Resource ID: SCR_001480

Alternate IDs: nlx_152723

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260905T132435+0000

Ratings and Alerts

No rating or validation information has been found for Globin Gene Server .

No alerts have been found for Globin Gene Server .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Bahar R, et al. (2024) The Importance of Molecular Biological Analysis for the Laboratory Diagnostic of Homozygous Haemoglobin Malay. Balkan journal of medical genetics : BJMG, 27(1), 65.

Bao X, et al. (2024) Abnormal hemoglobin anti-Lepore Hong Kong compound with α -thalassemia ameliorate thalassemia severity when co-inherited with β -thalassemia. Scientific reports, 14(1), 6682.

Traeger-Synodinos J, et al. (2024) Impact of α -Globin Gene Expression and α -Globin Modifiers on the Phenotype of β -Thalassemia and Other Hemoglobinopathies: Implications for Patient Management. International journal of molecular sciences, 25(6).

Li W, et al. (2024) Application of third-generation sequencing technology in the genetic testing of thalassemia. Molecular cytogenetics, 17(1), 32.

da Silva Brito R, et al. (2022) Basic biochemical and hematological parameters of structural hemoglobin variants in the postpartum women and their respective newborn from Manaus, Amazonas, Brazil. BMC pregnancy and childbirth, 22(1), 936.

Wu X, et al. (2022) Development and clinical translation of ex vivo gene therapy. Computational and structural biotechnology journal, 20, 2986.

Belmokhtar I, et al. (2022) Molecular heterogeneity of β -thalassemia variants in the Eastern region of Morocco. Molecular genetics & genomic medicine, 10(8), e1970.

Phasit A, et al. (2022) Phenotypic Expression of Known and Novel Hemoglobin A2-Variants, Hemoglobin A2-Mae Phrik [Delta 52(D3) Asp > Gly, HBD:c.158A > G], Associated with Hemoglobin E [Beta 26(B8) Glu > Lys, HBB:c.79G > A] in Thailand. *Genes*, 13(6).

Baronciani D, et al. (2021) Selecting α -thalassemia Patients for Gene Therapy: A Decision-making Algorithm. *HemaSphere*, 5(5), e555.

Zhou JR, et al. (2021) The Alberta Newborn Screening Approach for Sickle Cell Disease: The Advantages of Molecular Testing. *International journal of neonatal screening*, 7(4).

Chen M, et al. (2020) First report of the spectrum of α -globin gene mutations among women of reproductive age in Fujian area-Discrimination of α -thalassemia, α -thalassemia, and Iron Deficiency Anemia. *Journal of clinical laboratory analysis*, 34(11), e23479.

Torre LDCR, et al. (2020) Three Mexican Families with α thalassemia intermedia with different molecular basis. *Genetics and molecular biology*, 42(4), e20190032.

Hashmi G, et al. (2020) Enabling routine α -thalassemia Prevention and Patient Management by scalable, combined Thalassemia and Hemochromatosis Mutation Analysis. *BMC medical genetics*, 21(1), 108.

Yin S, et al. (2020) Effect of Exogenous Transcription Factors Integration Sites on Safety and Pluripotency of Induced Pluripotent Stem Cells. *Balkan journal of medical genetics : BJMG*, 23(1), 5.

Wu Y, et al. (2020) Genetic research and clinical analysis of deletional Chinese $G\alpha^{+}(A\alpha\alpha\alpha)$ α -thalassemia and Southeast Asian HPFH in South China. *Annals of hematology*, 99(12), 2747.

Zhang L, et al. (2019) LOVD-DASH: A comprehensive LOVD database coupled with diagnosis and an at-risk assessment system for hemoglobinopathies. *Human mutation*, 40(12), 2221.

Pirastru M, et al. (2017) A Novel -72 (T>A) α -Promoter Mutation Causing Slightly Elevated HbA2 in a Vietnamese Heterozygote. *BioMed research international*, 2017, 4537409.

Vermeulen C, et al. (2017) Sensitive Monogenic Noninvasive Prenatal Diagnosis by Targeted Haplotyping. *American journal of human genetics*, 101(3), 326.

Pirastru M, et al. (2017) Biochemical and Molecular Analysis of the Hb Lepore Boston Washington in a Syrian Homozygous Child. *BioMed research international*, 2017, 1261972.

Rawa K, et al. (2017) Two novel C-terminal frameshift mutations in the α -globin gene lead to rapid mRNA decay. *BMC medical genetics*, 18(1), 65.