Molecular Medicine

Supplemental Data

Molecular Expression and Characterization of Erythroid-Specific 5-Aminolevulinate Synthase Gain-of-Function Mutations Causing X-Linked Protoporphyria

David F Bishop, Vassili Tchaikovskii, Irina Nazarenko, and Robert J Desnick

Online address: http://www.molmed.org

The Feinstein Institute for Medical Research North Shore LIJ

Supplementary Table S1. Oligonucleotide primers for mutagenesis and sequencing of *ALAS2*.

Mutation	Primer[a]	Sequence	Plasmid Location[b]
delAT	1F	GTACACTTTGAGCTCGAGTGAGTGGGAACG	4138 to 4169
	1R	CGTTCCCACTCACTCGAGCTCAAAGTGTAC	4138 to 4169
delAGTG	2F	GTACACTTTGAGCTCATGAGTGGGAACGTTCCTAC	4138 to 4176
	2R	GTAGGAACGTTCCCACTCATGAGCTCAAAGTGTAC	4138 to 4176
delG	3F	CTACTTCGGGAACATGGGCCCCAGTATGTC	4173 to 4203
	3R	GACATACTGGGGCCCATGTTCCCGAAGTAG	4173 to 4203
548X	4F	GGGGCTGCCCCTCTAGGATGTGTCTGTG	4083 to 4410
	4R	CACAGACACATCCTAGAGGGGCAGCCCC	4083 to 4410
581X	5F	GGAACATGGGGCCCTAGTATGTCACCACC	4181 to 4209
	5R	GGTGGTGACATACTAGGGCCCCATGTTCC	4181 to 4209
Wild type	6F	TGTTGCCAATGACTCTACTC	3231 to 3251
Vector	7R	GTGCCAAGCTTGCCTGCA	4402 to 4419
Wild type	8R	AATTGCAGGCAGCCACAGA	4105 to 4123

[a] 'F' denotes Forward primer; 'R' denotes Reverse primer.
[b] For plasmid pMALc2-AE2; Asp 79 to C-ter = 2689 to 4215