

Names for *KLF1* Alleles

General description: EKLF (erythroid Krüppel-like factor) does not represent a blood group system, but is the product of *KLF1*. Mutations in this gene are responsible for In(Lu), a phenotype inherited in a dominant fashion, and for reduced expression of antigens of the Lutheran system and for P1, In^b, and AnWj antigens.

Gene name: *KLF1*
Number of exons: 3
Initiation codon: Within exon 1
Stop codon: Within exon 3
Entrez Gene ID: 10661
LRG sequence: NG_013087.1 (genomic)
NM_006563.3 (transcript)
Reference allele: *KLF1*01* (shaded)

Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change
Common	<i>KLF1*01</i>			
In(Lu)	<i>KLF1*BGM01</i>	c.-124T>C	Promoter	p.0
In(Lu)	<i>KLF1*BGM02</i>	c.380T>A	2	p.Leu127Ter
In(Lu)	<i>KLF1*BGM03</i>	c.569delC	2	p.Pro190Leufs*47
In(Lu)	<i>KLF1*BGM04</i>	c.874A>T	2	p.Lys292Ter
In(Lu)	<i>KLF1*BGM05</i>	c.895C>T	2	p.His299Tyr
In(Lu)	<i>KLF1*BGM06</i>	c.954dupG	3	p.Arg319Glufs*34
In(Lu)	<i>KLF1*BGM07</i>	c.983G>T	3	p.Arg328Leu
In(Lu)	<i>KLF1*BGM08</i>	c.983G>A	3	p.Arg328His
In(Lu)	<i>KLF1*BGM09</i>	c.991C>G	3	p.Arg331Gly
CO:-1,-2 IN:-1,-2	<i>KLF1*BGM10</i>	c.973G>A	3	p.Glu325Lys
In(Lu)	<i>KLF1*BGM11</i>	c.90G>A	1	p.Trp30Ter
In(Lu)	<i>KLF1*BGM12</i>	c.304T>C	2	p.Ser102Pro
In(Lu)	<i>KLF1*BGM13</i>	c.114delC	2	p.Asp38Glufs*53 [1]
In(Lu)	<i>KLF1*BGM14</i>	c.298G>T	2	p.Glu100Ter [1]
In(Lu)	<i>KLF1*BGM15</i>	c.304T>C, c.384insC	2	p.Ser103Pro, p.Lys162Glufs*352 [1]
In(Lu)	<i>KLF1*BGM16</i>	c.304T>C, c.1002del2	2, 3	p.Ser103Pro, p.Thr334Glyfs*351 [1]
In(Lu)	<i>KLF1*BGM17</i>	c.621C>G	2	p.Tyr207Ter [1]
In(Lu)	<i>KLF1*BGM18</i>	c.948delC	3	p.Cys316Trpfs*326 [1]
In(Lu)	<i>KLF1*BGM19</i>	c.1040C>A, c.1045delT	3	p.Ala347Asp, p.Ser349Argfs*358 [1]

[1] Garcia-Sanchez et al. Transfusion 2016;56:1413-18.