

Supplementary File 1

Primers used to get HLAB-5801 PCR product:

Forward Primer: 5'-GGCGGGGGCGCAGGACCTGA-3'

Reverse Primer: 5'-GGAGGCCATCCCCGGCGACCTAT-3'

Sequence of HLAB-5801-Patient DNA using Forward primer:

5' -

GTCTCAGCCCCTCCTCGCCCCCAGGCTCCCACTCCATGAGGTATTTCTACACCGCCATGTCCCGGCCCGGCCGCGGG
GAGCCCCGCTTCATCGCAGTGGGCTACGTGGACGACACCCAGTTTCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAG
GACGGAGCCCCGGGCGCCATGGATAGAGCAGGAGGGGCGGAGTATTGGGACGGGGAGACACGGAACATGAAGGCCT
CCGCGCAGACTTACCGAGAGAACCTGCGGATCGCGCTCCGCTACTACAACCAGAGCGAGGCCGGTGAGTGACCCCGG
CCCCGGGGCGCAGGTACGACTCCCCATCCCCACGTACGGCCCGGGTCGCCCCGAGTCTCCGGGTCCGAGATCCGCC
TCCCTGAGGCCGCGGGACCCGCCAGACCCTCGACCGGCGAGAGCCCCAGGCGCGTTTACCCGGTTTCATTTTCAGT
TGAGGCCAAAATCCCCGCGGGTTGGTCGGGGCGGGGCGGGGCTCGGGGACGGGGCTGACCGCGGGGCCGGGGCCAG
GGTCTCACATCATCCAGAGGATGTATGGCTGCGACCTGGGGCCCCGACGGGCGCCTCCTCCGCGGGCATGACCACTCC
GCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGAGCTCCTGGACCGCGGCGGACACCGCGGCTCAGAT
CACCCAGCGCAAGTGGGAGGCGGCCCGTGTGGCGGAGCAGCTGAGAGCCTACCTGGAGGGCCTGTGCGTGGAGTGGC
TCCGCAGATACCTGGAGAACGGGAAGGAGACGCTGCAGCGCGCGGGTACCA-3'

Sequence of HLAB-5801-Patient DNA using Reverse primer:

5' -

CGCCCCCAGGCTCCCACTCCATGAGGTATTTCTACACCGCCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATC
GCAGTGGGCTACGTGGACGACACCCAGTTTCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGGACGGAGCCCCGGGC
GCCATGGATAGAGCAGGAGGGGCGGAGTATTGGGACGGGGAGACACGGAACATGAAGGCCTCCGCGCAGACTTACC
GAGAGAACCTGCGGATCGCGCTCCGCTACTACAACCAGAGCGAGGCCGGTGAGTGACCCCGGCCCGGGGCGCAGGTC
ACGACTCCCCATCCCCACGTACGGCCCGGGTCGCCCCGAGTCTCCGGGTCCGAGATCCGCCTCCCTGAGGCCGCGG
GACCCGCCCAGACCCTCGACCGGCGAGAGCCCCAGGCGCGTTTACCCGGTTTCATTTTCAGTTGAGGCCAAAATCCC
CGCGGGTTGGTCGGGGCGGGGCGGGGCTCGGGGGACGGGGCTGACCGCGGGGCGGGGCCAGGGTCTCACATCATCC
AGAGGATGTATGGCTGCGACCTGGGGCCCGACGGGCGCCTCCTCCGCGGGCATGACCACTCCGCCTACGACGGCAAG
GATTACATCGCCCTGAACGAGGACCTGAGCTCCTGGACCGCGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTG
GGAGGCGGCCCGTGTGGCGGAGCAGCTGAGAGCCTACCTGGAGGGCCTGTGCGTGGAGTGGCTCCGCAGATACCTGG
AGAACGGGAAGGAGACGCTGCAGCGCGC-3'

The DNA sequence blasted with the NCBI nucleotide blast and showed 100% matching to *HLA-B*58:01* (Forward primer) as shown below (Supplementary File 1):

Homo sapiens HLA-B gene for HLA class I histocompatibility antigen B alpha chain precursor, complete cds, allele: B*58:01:01:03
Sequence ID: [LC257744.1](#) Length: 4571 Number of Matches: 1

Range 1: 1037 to 1857 [GenBank](#) [Graphics](#)

▼ Next Match ▲ Previous Match

Score	Expect	Identities	Gaps	Strand
1517 bits(821)	0.0	821/821(100%)	0/821(0%)	Plus/Plus
Query 1	GTCTCAGCCCTCCTCGCCCCAGGCTCCCACTCCATGAGGTATTTCTACACCGCCATGT	60		
Sbjct 1037	GTCTCAGCCCTCCTCGCCCCAGGCTCCCACTCCATGAGGTATTTCTACACCGCCATGT	1096		
Query 61	CCCGGCCCGGCCGCGGGAGCCCCGCTTCATCGCAGTGGGCTACGTGGACGACACCCAGT	120		
Sbjct 1097	CCCGGCCCGGCCGCGGGAGCCCCGCTTCATCGCAGTGGGCTACGTGGACGACACCCAGT	1156		
Query 121	TCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGGACGGAGCCCCGGGCGCCATGGATAG	180		
Sbjct 1157	TCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGGACGGAGCCCCGGGCGCCATGGATAG	1216		
Query 181	AGCAGGAGGGGCCGGAGTATTGGGACGGGGAGACACGGAACATGAAGGCCTCCGCGCAGA	240		
Sbjct 1217	AGCAGGAGGGGCCGGAGTATTGGGACGGGGAGACACGGAACATGAAGGCCTCCGCGCAGA	1276		
Query 241	CTTACCGAGAGAACCTGCGGATCGCGCTCCGCTACTACAACAGAGCGAGGCCGGTGAGT	300		
Sbjct 1277	CTTACCGAGAGAACCTGCGGATCGCGCTCCGCTACTACAACAGAGCGAGGCCGGTGAGT	1336		
Query 301	GACCCCGGCCCGGGGCGCAGGTACGACTCCCCATCCCCACGTACGGCCCGGGTCGCCC	360		
Sbjct 1337	GACCCCGGCCCGGGGCGCAGGTACGACTCCCCATCCCCACGTACGGCCCGGGTCGCCC	1396		
Query 361	CGAGTCTCCGGGTCCGAGATCCGCCTCCCTGAGGCCGCGGGACCCGCCAGACCCTCGAC	420		
Sbjct 1397	CGAGTCTCCGGGTCCGAGATCCGCCTCCCTGAGGCCGCGGGACCCGCCAGACCCTCGAC	1456		
Query 421	CGGCGAGAGCCCCAGGCGCGTTTACCCGGTTTCATTTTCAGTTGAGGCCAAATCCCCGC	480		
Sbjct 1457	CGGCGAGAGCCCCAGGCGCGTTTACCCGGTTTCATTTTCAGTTGAGGCCAAATCCCCGC	1516		
Query 481	GGGTTGGTcggggcggggcggggcctcgggggacggggctgaccgcggggccggggccagg	540		
Sbjct 1517	GGGTTGGTCGGGGCGGGGCGGGGCTCGGGGACGGGGCTGACCGCGGGGCCGGGGCCAGG	1576		
Query 541	gTCTCACATCATCCAGAGGATGTATGGCTGCGACCTGGGGCCCCGACGGGCGCCTCCTCCG	600		
Sbjct 1577	GTCTCACATCATCCAGAGGATGTATGGCTGCGACCTGGGGCCCCGACGGGCGCCTCCTCCG	1636		
Query 601	CGGGCATGACCAGTCCGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGAG	660		
Sbjct 1637	CGGGCATGACCAGTCCGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGAG	1696		
Query 661	CTCTGGACCGCGGCGGACACCGCGGCTCAGATACCCAGCGCAAGTGGGAGGCGGCCCG	720		
Sbjct 1697	CTCTGGACCGCGGCGGACACCGCGGCTCAGATACCCAGCGCAAGTGGGAGGCGGCCCG	1756		
Query 721	TGTGGCGGAGCAGCTGAGAGCCTACCTGGAGGGCCTGTGCGTGGAGTGGCTCCGCAGATA	780		
Sbjct 1757	TGTGGCGGAGCAGCTGAGAGCCTACCTGGAGGGCCTGTGCGTGGAGTGGCTCCGCAGATA	1816		
Query 781	CCTGGAGAACGGGAAGGAGACGCTGCAGCGCGCGGGTACCA	821		
Sbjct 1817	CCTGGAGAACGGGAAGGAGACGCTGCAGCGCGCGGGTACCA	1857		

The DNA sequence blasted with the NCBI nucleotide blast and showed 100% matching to *HLA-B*58:01* (Reverse primer) as shown below (Supplementary File 2):

Homo sapiens HLA-B gene for HLA class I histocompatibility antigen B alpha chain precursor, complete cds, allele: B*58:01:01:03
Sequence ID: LC257744.1 Length: 4571 Number of Matches: 1

Range 1: 1052 to 1849 GenBank Graphics					▼ Next Match ▲ Previous Match	
Score	Expect	Identities	Gaps	Strand		
1474 bits(798)	0.0	798/798(100%)	0/798(0%)	Plus/Plus		
Query 1	CGCCCCCAGGCTCCCACTCCATGAGGTATTTCTACACCGCCATGTCCCGGCCCGGCCGCG			60		
Sbjct 1052	CGCCCCCAGGCTCCCACTCCATGAGGTATTTCTACACCGCCATGTCCCGGCCCGGCCGCG			1111		
Query 61	GGGAGCCCCGCTTCATCGCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTCGACA			120		
Sbjct 1112	GGGAGCCCCGCTTCATCGCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTCGACA			1171		
Query 121	GCGACGCCGCGAGTCCGAGGACGGAGCCCCGGGCGCCATGGATAGAGCAGGAGGGGCCGG			180		
Sbjct 1172	GCGACGCCGCGAGTCCGAGGACGGAGCCCCGGGCGCCATGGATAGAGCAGGAGGGGCCGG			1231		
Query 181	AGTATTGGGACGGGGAGACCGGAACATGAAGGCCTCCGCGCAGACTTACCGAGAGAACC			240		
Sbjct 1232	AGTATTGGGACGGGGAGACCGGAACATGAAGGCCTCCGCGCAGACTTACCGAGAGAACC			1291		
Query 241	TGCGGATCGCGCTCCGCTACTACAACCAGAGCGAGGCCGGTGAGTGACCCCGGCCCGGG			300		
Sbjct 1292	TGCGGATCGCGCTCCGCTACTACAACCAGAGCGAGGCCGGTGAGTGACCCCGGCCCGGG			1351		
Query 301	CGCAGGTACGACTCCCCATCCCCACGTACGGCCCGGGTCGCCCGAGTCTCCGGGTCC			360		
Sbjct 1352	CGCAGGTACGACTCCCCATCCCCACGTACGGCCCGGGTCGCCCGAGTCTCCGGGTCC			1411		
Query 361	GAGATCCGCCTCCCTGAGGCCGCGGGACCCGCCAGACCCTCGACCGGCGAGAGCCCCAG			420		
Sbjct 1412	GAGATCCGCCTCCCTGAGGCCGCGGGACCCGCCAGACCCTCGACCGGCGAGAGCCCCAG			1471		
Query 421	GCGCGTTTACCCGGTTTCATTTTCAGTTGAGGCCAAAATCCCCGCGGGTTGGTcggggcg			480		
Sbjct 1472	GCGCGTTTACCCGGTTTCATTTTCAGTTGAGGCCAAAATCCCCGCGGGTTGGTCGGGGCG			1531		
Query 481	ggggggggctcgggggacggggctgaccgcggggcccggggccagggTCTCACATCATCCA			540		
Sbjct 1532	GGGCGGGGCTCGGGGGACGGGGCTGACCGCGGGGCCGGGGCCAGGGTCTCACATCATCCA			1591		
Query 541	GAGGATGTATGGCTGCGACCTGGGGCCCGACGGGCGCCTCCTCCGCGGGCATGACCACTC			600		
Sbjct 1592	GAGGATGTATGGCTGCGACCTGGGGCCCGACGGGCGCCTCCTCCGCGGGCATGACCACTC			1651		
Query 601	CGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGAGCTCCTGGACCGCGGC			660		
Sbjct 1652	CGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGAGCTCCTGGACCGCGGC			1711		
Query 661	GGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGTGGCGGAGCAGCT			720		
Sbjct 1712	GGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGTGGCGGAGCAGCT			1771		
Query 721	GAGAGCCTACCTGGAGGGCCTGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAA			780		
Sbjct 1772	GAGAGCCTACCTGGAGGGCCTGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAA			1831		
Query 781	GGAGACGCTGCAGCGCGC	798				
Sbjct 1832	GGAGACGCTGCAGCGCGC	1849				