## **EXHIBIT 2**

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53154894	cctgctctgtcgcctgccaccgctgctcgaacccgagtggttcactgcac	53154943	53155691 gaaggtgaccaacgtcaaggatggcaccaccaccagacctcattggagc 53155	740
00000305	tgtgaaaacagattccagacgccgggaactcacgcctccaatcccagacg	00000354	00001105 tcttcatgtacctgaacgaagtcgcggggcaaggcatggcgtgggccgtatt 00001	154
53154944	ggtgaagacagattccggacgccaggaagtcatgcctccaatctcagacg	53154993	53155741 tcttcatgtacctgaacgaagtcgtgggcaagcagggtgtgggctgtatt 53155	790
00000355	ctatgtccagcaaaggctccgtggttctggcctacagtggcggcctggac	00000404	00001155 gacatcgtggagaaccgcttcattggaatgaagtcccgaggtatctacga 00001	1204
53154994	ctatgtccaccaaaggctccgtggttctggcctacagtggcagcctggac	53155043	53155791 gacatcatggagaaccgcttcattggaatgaagtcccgagggatctacca 53155	840
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00000505	aggcactgaagcttggggccaaaaaggtgttcattgaggatgtcagcagg	00000554	00001305 tttgctgagctggtgtataccggtttctggcacagccctgagtgtgaatt 00001	1354
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53155194	gagtttgtggaggagttcatctggccggccatccagtccagtgcactgta	53155243	53155991 tgtctgccactgcatcgccaagtcccaggagcaagtggaagggaaagtgc 53156	040
00000605	tgaggaccgctacctcctgggcacctctcttgccaggccctgcatcgccc	00000654	00001405 aggtgtccgtcctcaagggccaggtgtacatcctcggccgggagtcccca 00001	454
53155244	tgaggaccgctaccttctgggcacctctcgccaggccctgcatcgcct	53155291	53156041 aggtgtccgtcctcgagggccaggtgtacatccttggccaggagtcccca 53156	090
00000655	gcaaacaagtggaaatcgcccagcgggaggggccaagtatgtgtcccac	00000704	00001455 ctgtctctctacaatgaggagctggtgagcatgaacgtgcagggtgatta 00001	1504
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53155342	agcaccacgggaaatgggaacaatcaggtccggtttgagctcatttgcta	53155391	53156141 tcagtcaattgatgccaccgggttcatcaacatcaattccctcaggctga 53156	190
00000755	ctcactggcccccagataaaggtcattgctccctggaggatgcctgaat	00000804	00001555 aggaatatcatcgtctccagagcaaggtcactgccaaatagacccgtgta 00001	604
53155392	ctcactagcccccagataaaggtcattgctccctggaggatgcccaaat	53155441	53156191 aggaatatcatcgtctccagagcaaggtcactgccaaatagccccctgta 53156	240
	tctacaaccggttcaagggccgcaatgacctgatggagtacgcaaagcaa		00001605 caatgaggagctggggcctcctcaatttgcagatcccccaagtacaggcg 00001	654
53155442	tctacaaccagctcaagggccgcaatgacctgatggaatatgcaaagcaa	53155491	53156241 caatgaggagctggggcctccttaatttgctgatcccccaagtacaggag 53156	290
00000855	cacgggattcccatcccggtcactcccaagaacccgtggagcatggatga	00000904	00001655 ctaattgttgtgataatttgtaattgtgacttgttctccccggctggcag 00001	704
	cacaggattcccatcccggtcacacccaagaactcgtggagcatggacga		53156291 ctaattgttgtgataatttgtaattgtgacttgttctcctcggctggcag 53156	
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	gaacctcatgcatatcagctacgagtctggaatcctggagaaccctaaga		53156341 cgtagtggggctgccaggcccagctttgttctctggtccccctgaagcc 53156	
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	accaagcacctccaggtctctacacgaagacc.aggacccggccaaagcc		53156391 tgcaaacgttgtcatcaaagggaagggtggggggcagctgtggggggg 53156	440
	cccaacacccctgacattctcgagatcgagttcaaaaaaggggtccctgt		00001805 ctataaaaatgacaattaaaaga 00001827 	
53155641	cccaacacccctgacattctcgagatcgagttcaaaaaaggagtccccgt	53155690	53156441 ctataaaa.tgacaattaaaaga 53156462	

Alignment showing 93.4% identical bases between nucleotides 255-1827 (top line of the alignment, in italics) of the argininosuccinate synthase cDNA sequence inferred from its naturally occurring 1,863 base mRNA (Genbank reference NM\_000050) and a processed pseudogene on human chromosome 5 (bottom line of alignments in roman).