IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE

SAN ROCCO THERAPEUTICS, LLC,)	
Plaintiff,))) C.A. No. 21-1478-RGA	
V.)	
) HIGHLY CONFIDENTIA	L
BLUEBIRD BIO, INC. and THIRD ROCK)	
VENTURES, LLC,)	
)	
Defendants.)	

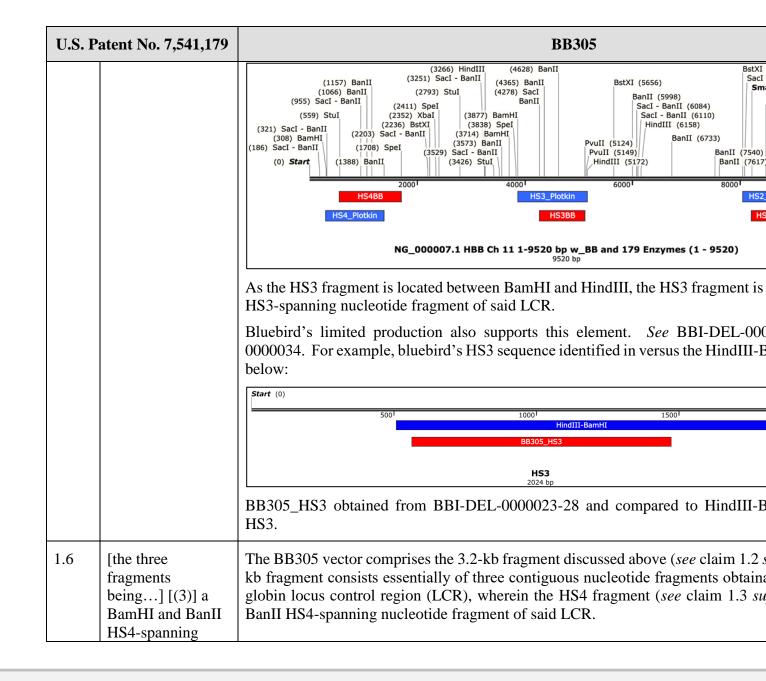
PLAINTIFF'S INITIAL INFRINGEMENT CLAIM CHARTS

Appendix A – Initial Infringement Claim Chart For U.S. Patent No. 7,541,179 – HIGHLY CONF

U.S. Patent No. 7,541,179		BB305
		As the HS2 fragment is located between BstXI and SnaBI, the HS2 fragment is a E spanning nucleotide fragment of said LCR.
		Bluebird's limited production also supports this element. <i>See</i> BBI-DEL-000 0000034. For example, bluebird's HS2 sequence identified in versus the SnaBI-below:
		Start (0)
		500 ¹ 1500 ¹ 1500 ¹ SnaBI-BstXI BB305_HS2
		HS2 1735 bp
		BB305_HS2 obtained from BBI-DEL-0000023-28 and compared to SnaBI-BstX
1.5 [the three fragments being] [(2)] a BamHI and HindIII HS3- spanning nucleotide fragment of said LCR, and	The BB305 vector comprises the 3.2-kb fragment discussed above (<i>see</i> claim 1.2, kb fragment consists essentially of three contiguous nucleotide fragments obtain globin locus control region (LCR), wherein the HS3 fragment (<i>see</i> claim 1.3 <i>su</i> HindIII HS3-spanning nucleotide fragment of said LCR.	
	To the extent the HS3 in BB305 is not literally a BamHI and HindIII HS3-spannin of said LCR, it is present under the doctrine of equivalents. For example, to insubstantially different from a BamHI and HindIII HS3-spanning nucleotide fract the HS3 fragment is a HS3 fragment and sufficiently sized to cause expression payload but not large enough to disrupt functioning of the vector. Alternativel performs substantially the same function, in substantially the same way, to achieve BamHI and HindIII HS3-spanning nucleotide fragment of said LCR. For examp HS3 in BB305 and the BamHI and HindIII HS3-spanning nucleotide fragment of expression of the globin gene payload. It performs that function in substantially is through the use of part of a human-derived β -globin locus control region k naturally controls β -globin expression). The HS3 in BB305 is sufficiently large to but sufficiently small to fit the recombinant vector. This achieves the same	

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U.S. Patent No. 7,541,179	BB305
	controlled expression of a replacement β -globin gene in the target cell. Notably, approximately two-thirds the size of the full BamHI and HindIII region.
	Exemplary Support:
	The HS3 fragment in BB305 (denoted "HS3BB") is a subset of the HS3 human (region (LCR) located between the restriction sites BamHI (3877) and HindIII (51
	6) HindIII (4628) BanII I - BanII (4365) BanII BstXI (56 Stul (4278) SacI BanII (4278) SacI BanII Sac (3877) BamHI Sac (3873) BanII PvuII (5124) (3714) BamHI PvuII (5124) Sac Sa (3714) BamHI PvuII (5124) HindIII (5172) 4000 ¹ 6000 ¹ HS3_Plotkin HS3BB 7.1 HBB Ch 11 1-9520 bp w_BB and 179 En 9520 bp



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CERTIFICATE OF SERVICE

The undersigned hereby certifies that on August 10, 2023, a copy of the foregoing

document was served, by email, on the counsel listed below:

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