

**Table S1. *V. vulnificus* isolates included in this study**

<b>Strain</b>	<b>Country and year of isolation</b>	<b>Source (seawater Temp. [°C] / Sal. [‰])</b>	<b>Reference, Strain collection</b>
VN-0010	Germany, 1994	Diseased human	RKI, BfR*
VN-0016	Germany, 1996	Seawater (SM/n.d.)	RKI, BfR* Klinikum Greifswald
VN-0092	Germany, 2011	Diseased human	Greifswald
VN-0094	Denmark, 1994	Diseased human	(1)
VN-0095	Denmark, 1994	Diseased human	(1)
VN-0096	Denmark, 1994	Diseased human	RKI, BfR*
VN-0097	Denmark, 1994	Diseased human	(3)
VN-0098	Denmark, 1994	Diseased human	(3)
ATCC 33149	Japan	Diseased eel	ATCC
VN-0100	Germany, 2010	Seawater (SM/n.d.)	LAGuS
VN-0101	Germany, 2010	Seawater (SM/n.d.)	LAGuS

VN-0102	Germany, 2010	Seawater (SM/n.d.)	LAGuS
VN-0103	Germany, 2010	Seawater (SM/6.7)	LAGuS
VN-0104	Germany, 2010	Seawater (SM/n.d.)	LAGuS
VN-0105	Germany, 2010	Seawater (SM/n.d.)	LAGuS
VN-0108	Germany, 2010	Diseased human	LAGuS
VN-0112	Germany, 2010	Diseased human	LAGuS
VN-0119	Denmark, 1997	mussel	RKI, BfR*
VN-0120	Denmark, 1997	mussel	RKI, BfR*
ATCC 27562	U.S.A.	Diseased human	ATCC
VN-0125	Denmark, 1994	Diseased human	(1)
VN-0126	Denmark, 1994	Diseased human	(1)
VN-0127	Denmark, 1994	Diseased human	(1)
VN-0128	Denmark, 1994	Diseased human	(1)
VN-0129	Denmark, 1994	Diseased human	(1)
VN-0130	Denmark, 1994	Diseased human	(1)
VN-0131	Denmark, 1994	Diseased human	(1)

VN-0132	Denmark, 1994	Diseased human	(1)
VN-0133	Denmark, 1994	Diseased human	(1)
VN-0143	Sweden, 1991	Diseased eel	(3)
VN-0204	Denmark, 1994	Seawater	(3)
VN-0205	Germany, 1995	Seawater (SM/n.d.)	RKI, BfR*
VN-0206	Germany, 1995	Seawater (SM/n.d.)	RKI, BfR*
VN-0207	Germany, 1999	Seawater (22.0/n.d.)	RKI, BfR*
VN-0208	Germany, 1999	Seawater (13.0/n.d.)	RKI, BfR*
VN-0209	Germany, 1999	Seawater (17.0/n.d.)	RKI, BfR*
VN-0227	Germany, 2004	Seawater (21.7/7.4)	LAGuS
VN-0235	Germany, 2006	Seawater (24.2/6.8)	LAGuS
VN-0239	Germany, 2006	Seawater (24.0/7.2)	LAGuS
VN-0243	Germany, 2006	Seawater (24.2/6.8)	LAGuS
VN-0251	Germany, 2006	Seawater (20.0/7.1)	LAGuS
VN-0260	Germany, 2007	Seawater (20.4/7.4)	LAGuS
VN-0264	Germany, 2007	Seawater (19.2/7.1)	LAGuS

VN-0266	Germany, 2007	Seawater (n.d./8.1)	LAGuS
VN-0270	Germany, 2008	Seawater (16.2/6.3)	LAGuS
VN-0274	Germany, 2008	Seawater (20.9/7.6)	LAGuS
VN-0275	Germany, 2008	Seawater (18.6/7.8)	LAGuS
VN-0276	Germany, 2008	Seawater (16.7/7.4)	LAGuS
VN-0277	Germany, 2008	Seawater (17.9/7.0)	LAGuS
VN-0280	Germany, 2011	Seawater (19.5/5.4)	LAGuS
MO6-24	U.S.A.	Diseased human	(4,5)
CMCP6	South Korea	Diseased human	(2)
VN-0288	Germany, 2010	Diseased human	RKI, BfR*

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\*RKI,BfR, Strain collection of Robert Koch-Institute (RKI), now in collection of National Reference Laboratory for Monitoring Bacteriological Contamination of Bivalve Molluscs of BfR, LAGuS, Landesamt für Gesundheit und Soziales, Rostock, Germany.

#### Reference List

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3. **Lewin, A., B. Bert, A. Dalsgaard, B. Appel, and L. Hoi.** 2000. A highly homologous 68 kbp plasmid found in *Vibrio vulnificus* strains virulent for eels. *J Basic Microbiol* **40**:377-384.
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5. **Wright, A. C., L. M. Simpson, J. D. Oliver, and J. Morris.** 1990. Phenotypic evaluation of acapsular transposon mutants of *Vibrio vulnificus*. *Infect.Immun.* **58**:1769-1773.

**Table S2. Allelic profiles of the 53 isolates tested (Bold: new ST types/alleles)**

Strain	Sequence type	Clonal complex (Burst)	<i>glp</i>	<i>gyrB</i>	<i>mdh</i>	<i>metG</i>	<i>purM</i>	<i>dtdS</i>	<i>lysA</i>	<i>pntA</i>	<i>pyrC</i>	<i>tnaA</i>
VN-0010	ST43	1	7	7	9	9	8	21	11	8	7	18
VN-0016	<b>ST103</b>	Singleton	<b>49</b>	<b>40</b>	<b>44</b>	2	8	22	<b>58</b>	5	11	<b>50</b>
VN-0092	<b>ST118</b>	Singleton	4	13	14	29	25	63	41	32	35	<b>46</b>
VN-0094	<b>ST110</b>	Singleton	38	1	12	31	27	23	36	1	48	<b>47</b>
VN-0095	<b>ST110</b>	Singleton	38	1	12	31	27	23	36	1	48	<b>47</b>
VN-0096	<b>ST111</b>	Singleton	<b>51</b>	<b>42</b>	41	<b>41</b>	8	22	4	<b>42</b>	14	<b>48</b>
VN-0097	<b>ST112</b>	Singleton	2	2	2	3	3	<b>65</b>	4	5	5	25
VN-0098	<b>ST112</b>	Singleton	2	2	2	3	3	<b>65</b>	4	5	5	25
ATCC 33149	<b>ST112</b>	Singleton	2	2	2	3	3	<b>65</b>	4	5	5	25
VN-0100	<b>ST128</b>	2	12	13	14	13	12	4	41	1	13	11
VN-0101	<b>ST113</b>	3	<b>50</b>	8	10	7	9	22	33	9	5	30
VN-0102	<b>ST114</b>	Singleton	47	<b>41</b>	11	23	8	<b>64</b>	<b>59</b>	5	14	<b>49</b>

VN-0103	<b>ST100</b>	4	13	14	15	7	9	34	6	15	19	39
VN-0104	<b>ST115</b>	2	12	<b>40</b>	14	13	12	4	41	1	13	11
VN-0105	<b>ST116</b>	5	<b>49</b>	2	<b>44</b>	7	8	22	<b>57</b>	15	5	<b>50</b>
VN-0108	<b>ST117</b>	6	33	2	2	2	3	2	<b>62</b>	5	<b>53</b>	<b>40</b>
VN-0112	<b>ST118</b>	Singleton	4	13	14	29	25	<b>63</b>	41	32	35	<b>46</b>
VN-0119	<b>ST130</b>	Singleton	32	13	12	9	12	24	41	1	13	19
VN-0120	<b>ST119</b>	Singleton	1	3	32	5	2	<b>62</b>	3	4	<b>52</b>	7
ATCC 27562	ST3	Singleton	2	2	1	2	1	10	1	2	4	9
VN-0125	<b>ST112</b>	Singleton	2	2	2	3	3	<b>65</b>	4	5	5	25
VN-0126	<b>ST120</b>	1	7	7	12	9	8	21	11	<b>43</b>	7	18
VN-0127	<b>ST121</b>	Singleton	9	7	11	24	8	<b>61</b>	<b>56</b>	11	12	41
VN-0128	<b>ST110</b>	Singleton	38	1	12	31	27	23	36	1	48	<b>47</b>
VN-0129	<b>ST110</b>	Singleton	38	1	12	31	27	23	36	1	48	<b>47</b>
VN-0130	ST43	1	7	7	9	9	8	21	11	8	7	18
VN-0131	<b>ST122</b>	Singleton	48	11	<b>43</b>	24	8	22	<b>63</b>	13	12	42

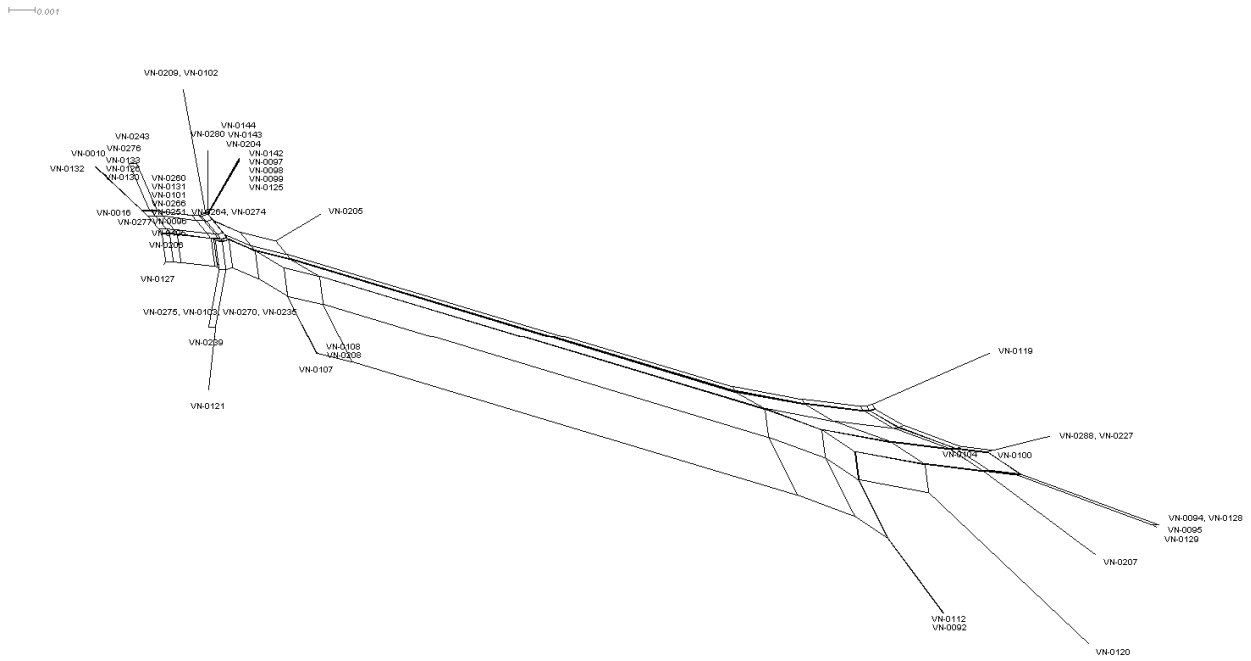
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VN-0133	<b>ST131</b>	1	7	7	9	13	8	21	11	8	7	18
VN-0143	<b>ST112</b>	Singleton	2	2	2	3	3	<b>65</b>	4	5	5	25
VN-0204	<b>ST112</b>	Singleton	2	2	2	3	3	<b>65</b>	4	5	5	25
VN-0205	ST65	Singleton	13	14	15	7	9	40	6	25	5	4
VN-0206	<b>ST132</b>	5	<b>49</b>	<b>40</b>	<b>44</b>	7	8	22	57	15	5	<b>50</b>
VN-0207	<b>ST123</b>	Singleton	46	39	<b>42</b>	<b>40</b>	25	59	54	29	13	11
VN-0208	<b>ST105</b>	Singleton	33	28	11	2	3	2	17	13	51	25
VN-0209	<b>ST124</b>	Singleton	47	14	11	23	8	<b>64</b>	53	23	17	41
VN-0227	<b>ST125</b>	7	34	13	14	13	25	27	<b>61</b>	29	13	30
VN-0235	<b>ST133</b>	4	13	14	15	7	9	34	6	15	14	14
VN-0239	<b>ST133</b>	4	13	14	15	7	9	34	6	15	14	14
VN-0243	<b>ST107</b>	8	8	8	10	7	8	58	6	22	5	45
VN-0251	ST44	3	8	8	10	7	9	22	33	9	5	30
VN-0260	<b>ST126</b>	9	8	8	10	3	9	22	<b>55</b>	15	49	44
VN-0264	<b>ST108</b>	Singleton	8	38	10	3	9	22	33	15	50	44



VN-0266	<b>ST113</b>	3	<b>50</b>	8	10	7	9	22	33	9	5	30
VN-0270	<b>ST133</b>	4	13	14	15	7	9	34	6	15	14	14
VN-0274	ST44	3	8	8	10	7	9	22	33	9	5	30
VN-0275	<b>ST133</b>	4	13	14	15	7	9	34	6	15	14	14
VN-0276	<b>ST134</b>	8	8	8	10	7	8	58	1	22	5	45
VN-0277	<b>ST127</b>	9	8	8	10	3	8	22	<b>55</b>	15	49	44
VN-0280	<b>ST109</b>	Singleton	45	2	20	2	9	<b>60</b>	26	20	17	43
MO6-24*		Singleton	5	3	18	14	14	7	2	17	22	13
CMCP6*			3	3	3	4	4			1	1	
VN-0288	<b>ST135</b>	7	34	13	14	13	25	27	41	29	13	11

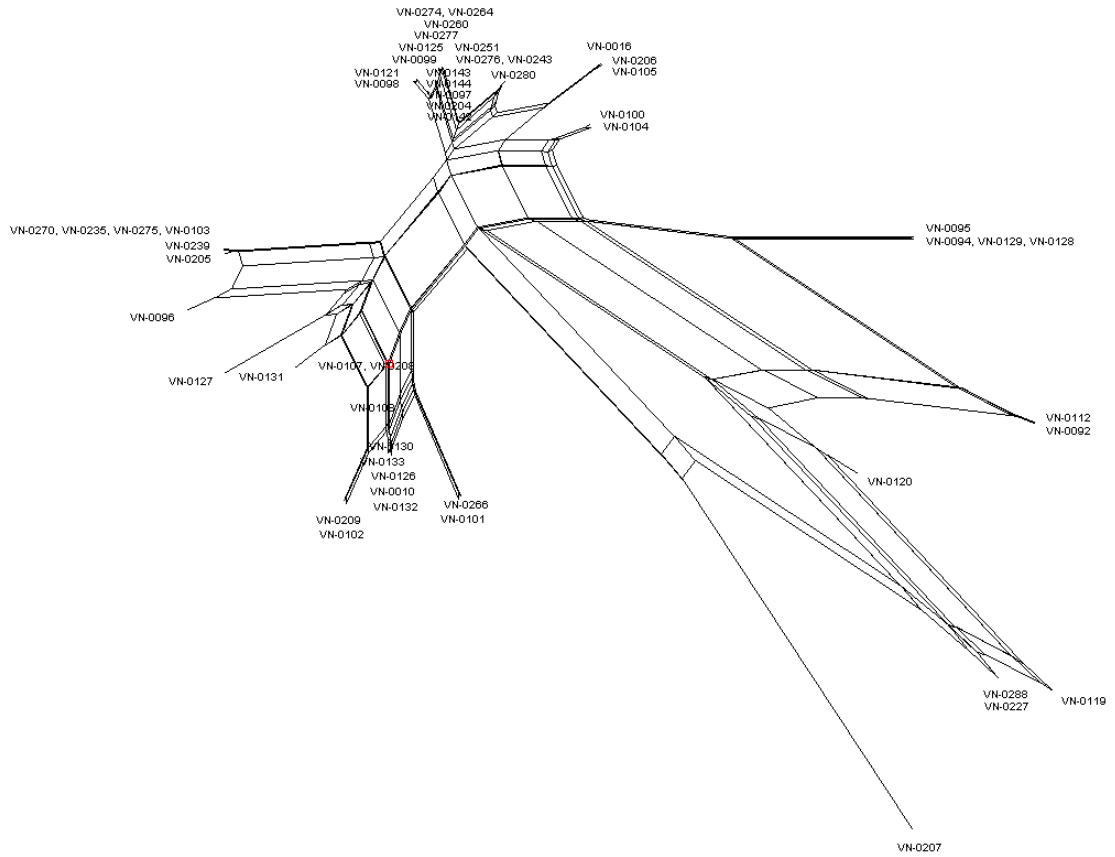
**Figure S1. SplitsTree networks for the 10 housekeeping genes analyzed in the study.**

*dtdS*



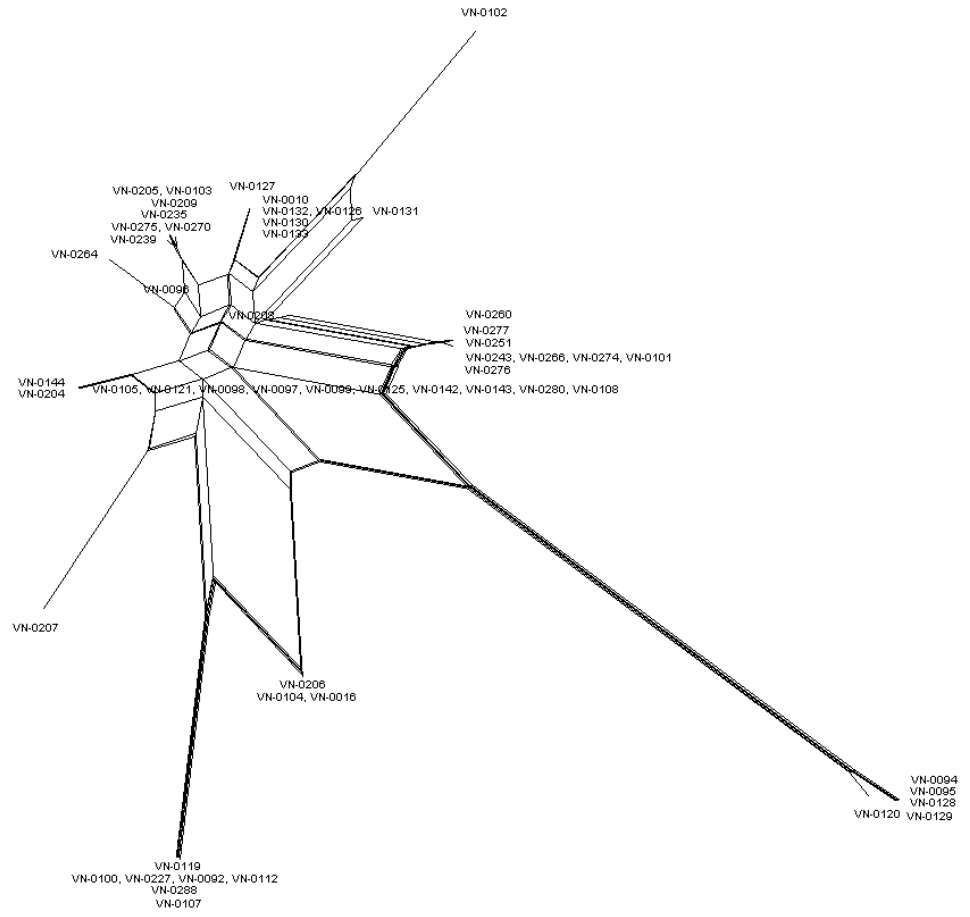
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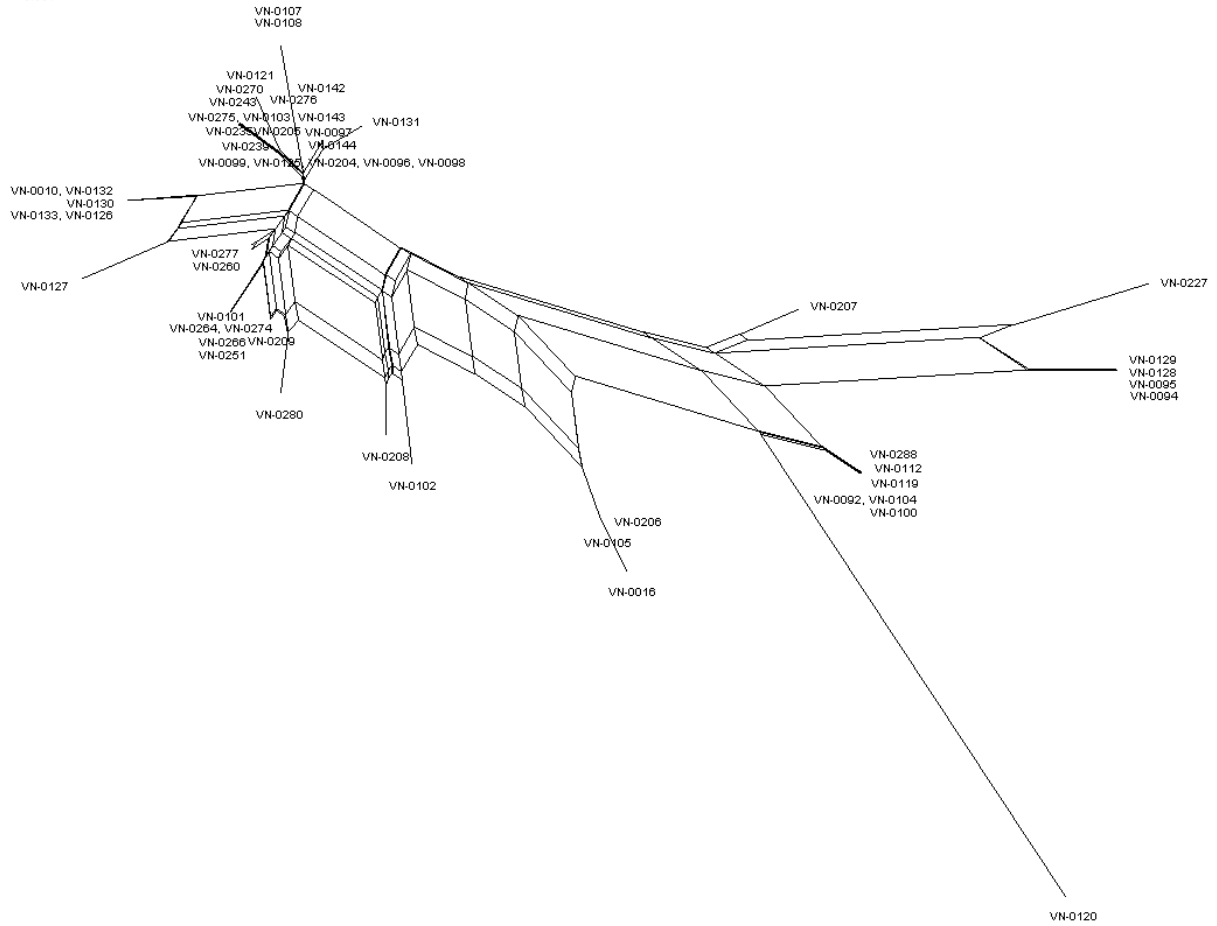
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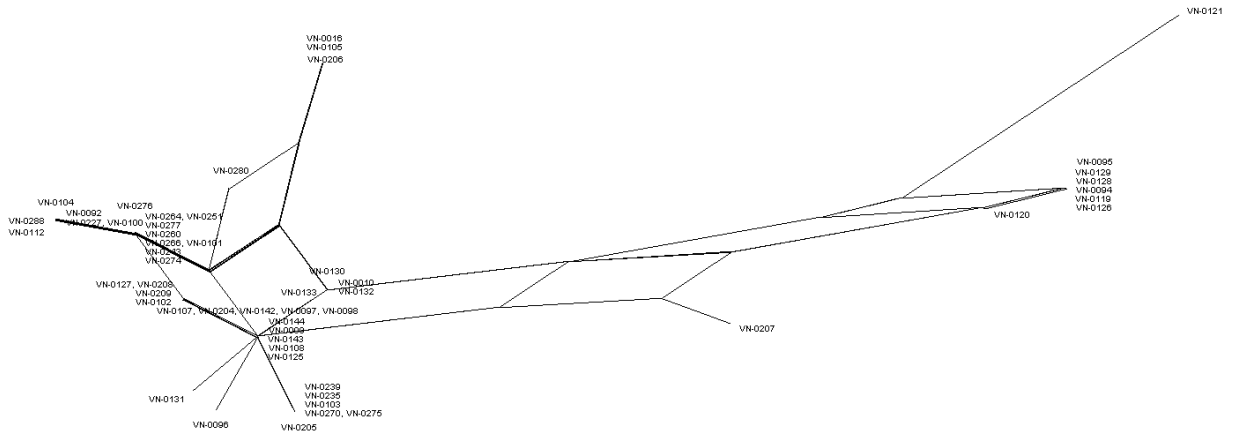
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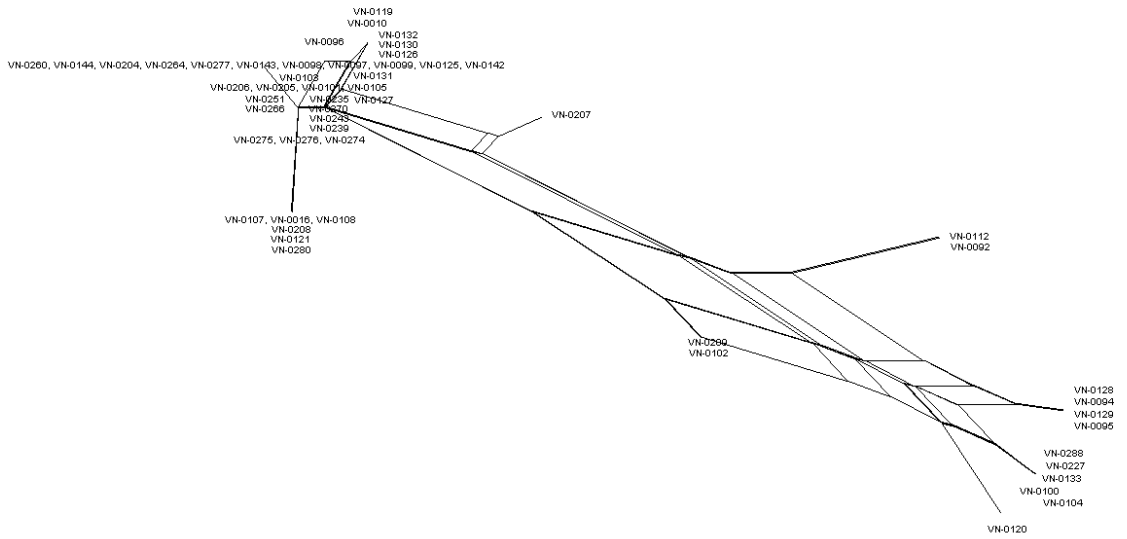
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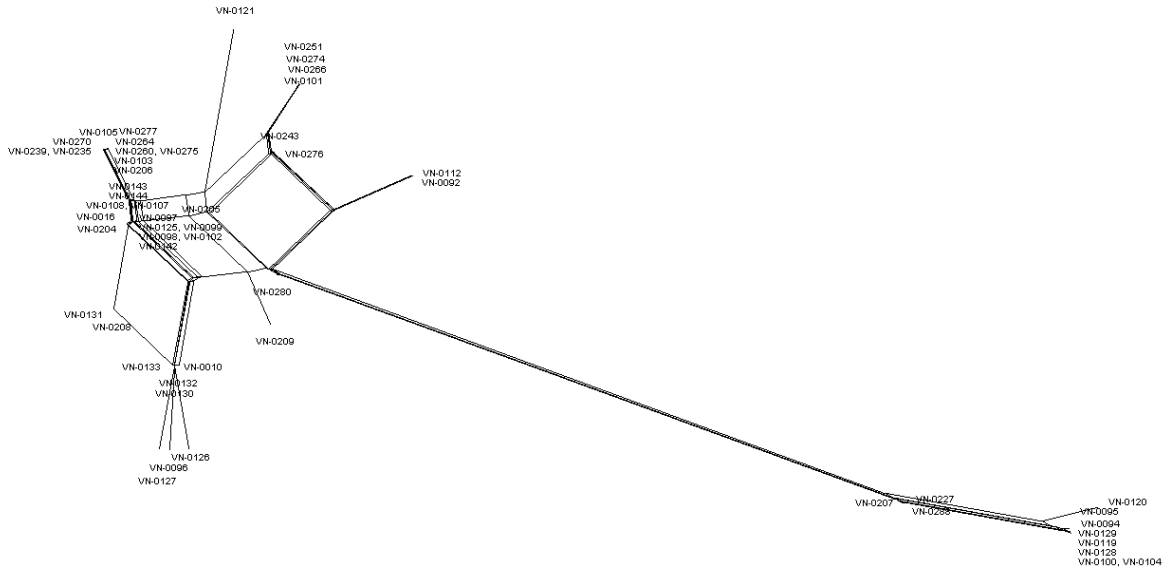
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*pntA*

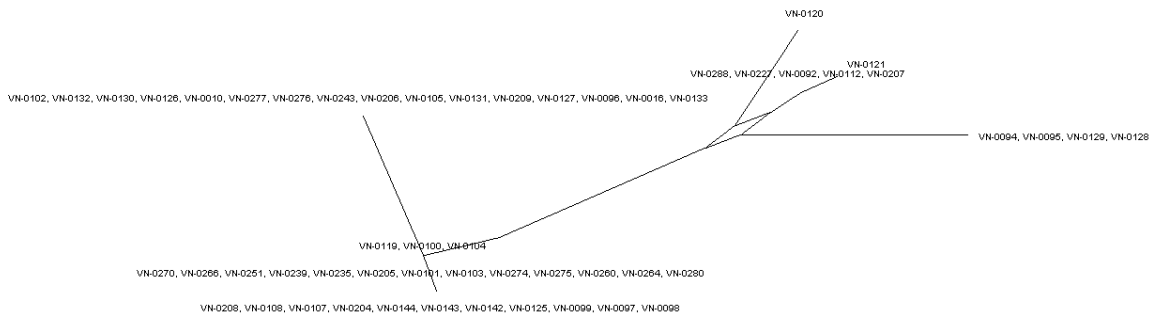
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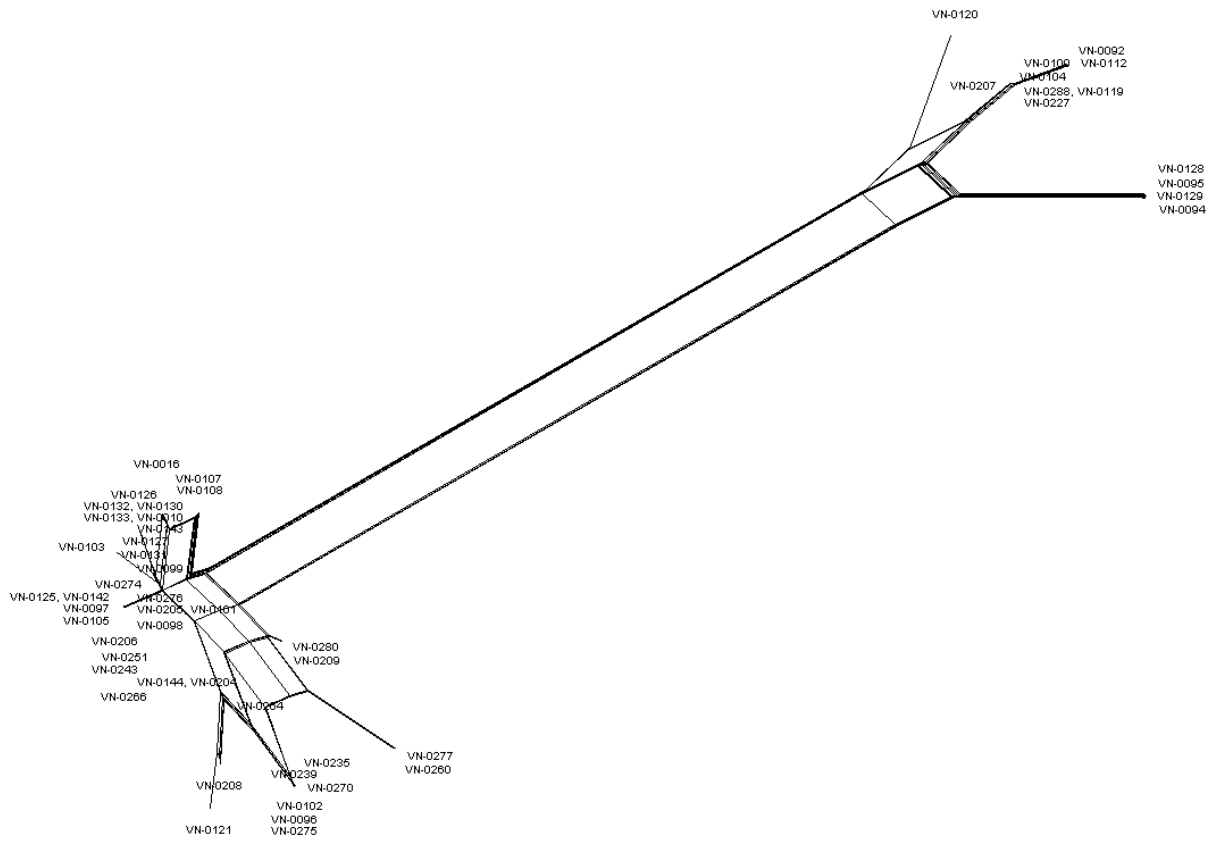
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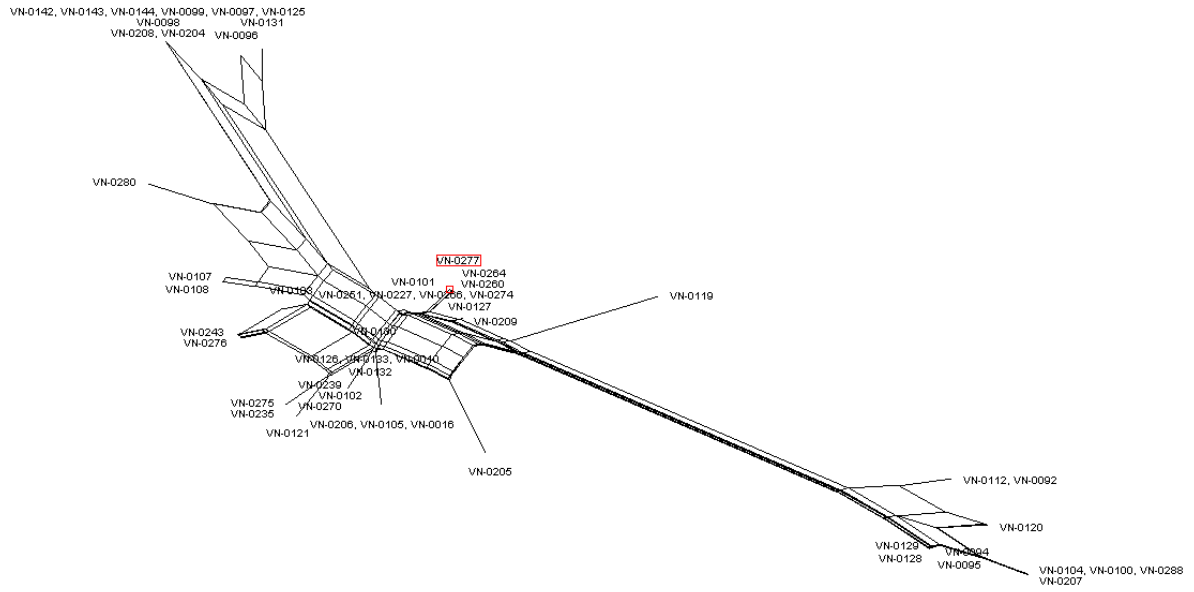
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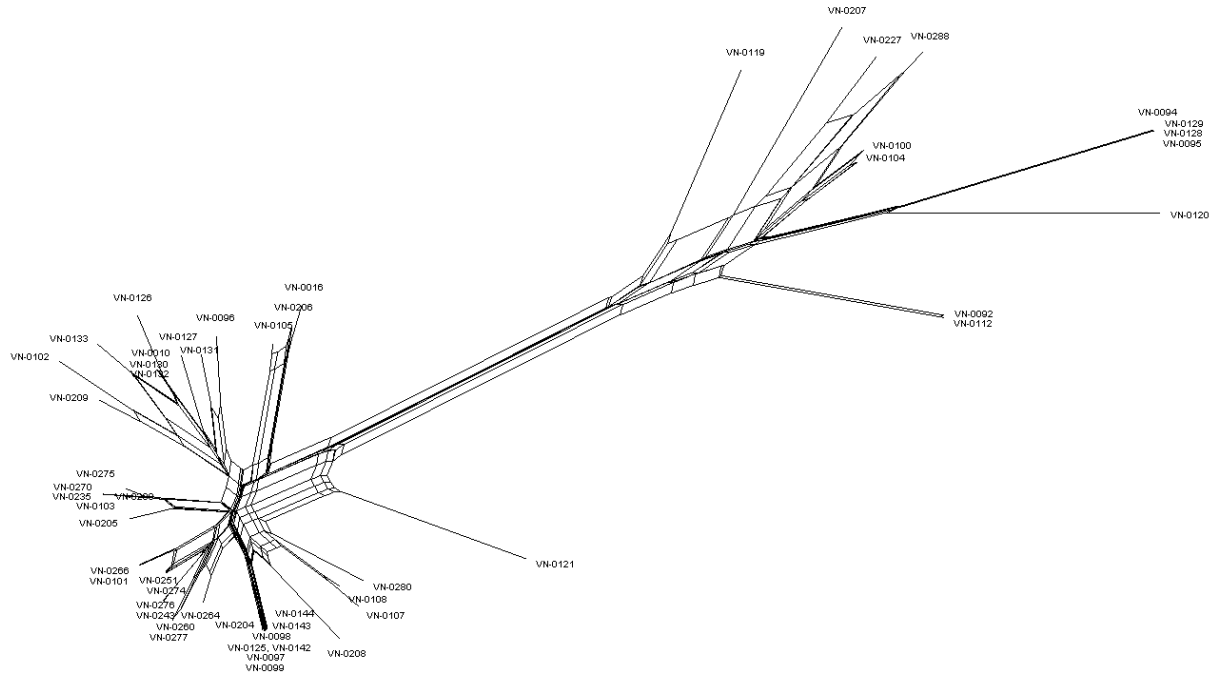
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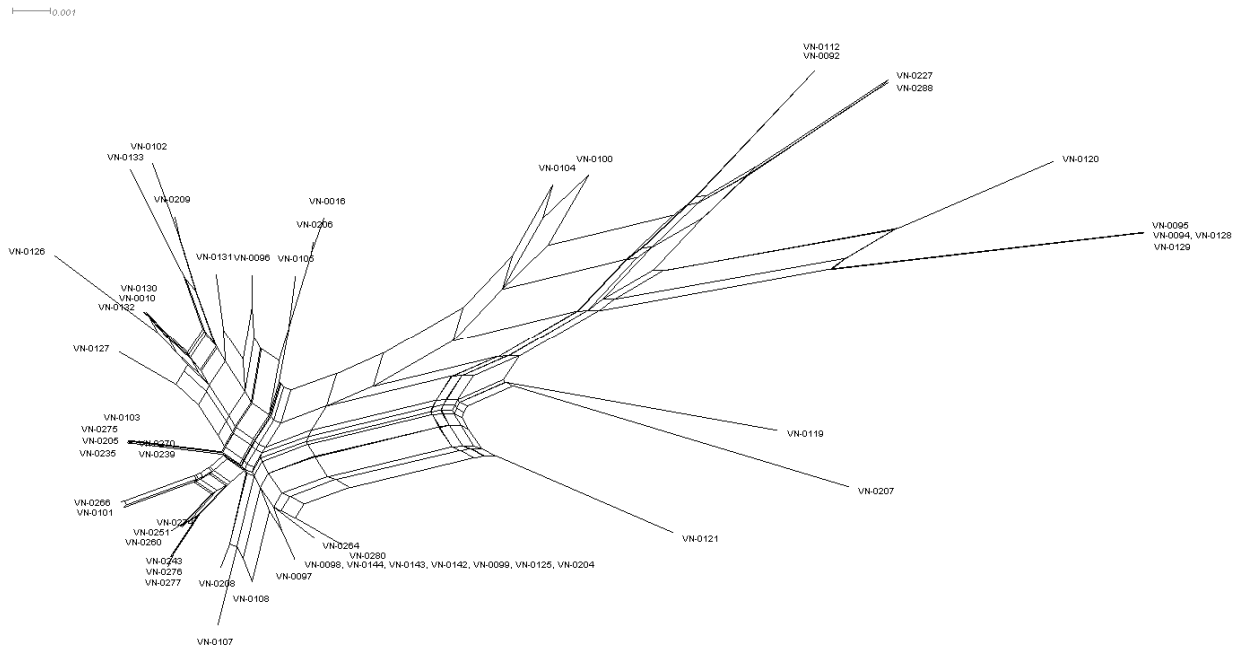


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concatenated sequences (alleles from chromosome 1)



concatenated sequences (alleles from chromosome 2)

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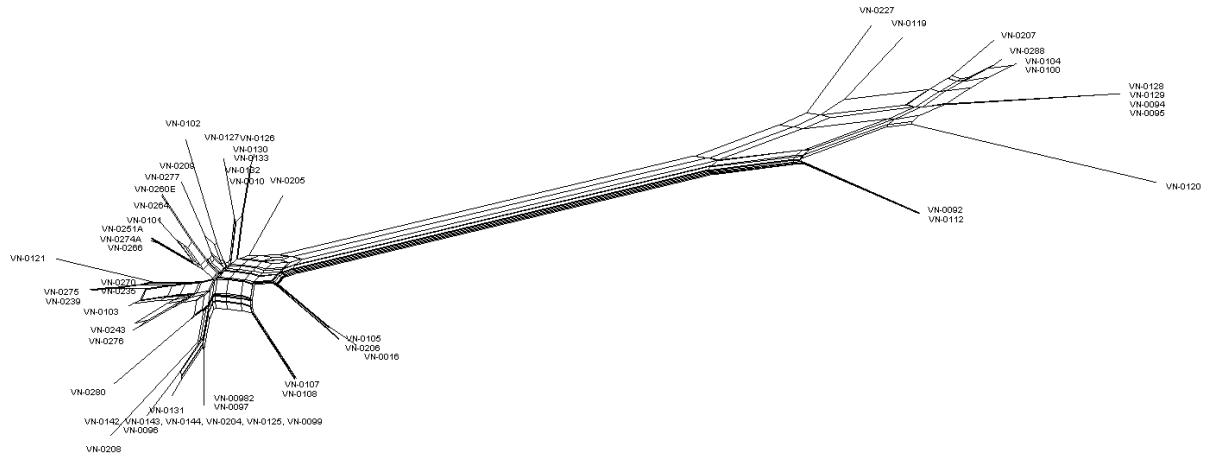


Figure S2. Quantitative hemolysis assay

