

<b>Allele</b>	<b>Isolate 1</b>	<b>Isolate 2</b>	<b>Isolate 3</b>	<b>Isolate 4</b>	<b>Isolate 5</b>	<b>Isolate 6</b>	<b>Isolate 7</b>	<b>Isolate 8</b>
<b>QGAQ</b>	0.0053 (0.00025)	0.005 (0.00032)	0.0034 (0.00030)	0.0051 (0.00019)	0.0038 (0.00025)	0.0028 (0.00022)	0.0053 (0.00024)	0.0048 (0.00030)
<b>QGGQ</b>	0.0047 (0.00018)	0.0047 (0.00024)	0.0034 (0.00038)	0.0060 (0.00026)	0.0042 (0.00039)	0.0027 (0.00026)	0.0053 (0.000096)	0.0051 (0.00012)
<b>QSAQ</b>	0.0024 (0.00010)	0.0022 (0.000089)	0.0017 (0.00016)	0.0028 (0.00010)	0.0020 (0.00012)	0.00089 (0.00015)	(0.0028) (0.00011)	0.0025 (0.00012)
<b>HGAQ</b>	0.0024 (0.00020)	0.0020 (0.00018)	0.0011 (0.00015)	0.0027 (0.000074)	0.0016 (0.00017)	0.00083 (0.00017)	0.0027 (0.000097)	0.0025 (0.000088)
<b>QGAK</b>	0.0016 (0.000080)	0.0013 (0.00016)	0.00075 (0.000097)	0.0022 (0.00010)	0.00081 (0.00016)	0.00076 (0.00016)	0.0019 (0.000088)	0.0015 (0.00021)
<b>225F</b>	0.0020 (0.000078)	0.0017 (0.00011)	0.00070 (0.000099)	0.0029 (0.00017)	0.0011 (0.00016)	0.00059 (0.000042)	0.0026 (0.00011)	0.0018 (0.00017)
<b>132M</b>	0.0029 (0.000097)	0.0027 (0.00013)	0.0018 (0.00012)	0.0033 (0.00014)	0.0018 (0.000061)	0.00085 (0.00011)	0.0028 (0.000077)	0.0021 (0.000072)
<b>132L</b>	0.0021 (0.00015)	0.0024 (0.00017)	0.0014 (0.000085)	0.0027 (0.00010)	0.0019 (0.00013)	0.0011 (0.00028)	0.0025 (0.000057)	0.0019 (0.00015)
<b>138N</b>	0.0030 (0.00010)	0.0026 (0.00017)	0.0017 (0.00024)	0.0036 (0.000080)	0.0020 (0.00014)	0.0011 (0.00022)	0.0033 (0.00010)	0.0027 (0.0002)
<b>MSSM</b>	0.0023 (0.000074)	0.0022 (0.00012)	0.0012 (0.00020)	0.0030 (0.00011)	0.0018 (0.00019)	0.00084 (0.00014)	0.0024 (0.00011)	0.0017 (0.00011)
<b>225Y</b>	0.0025 (0.000092)	0.0020 (0.00014)	0.0015 (0.00014)	0.0028 (0.00012)	0.0018 (0.000079)	0.00092 (0.00019)	0.0021 (0.00010)	0.0015 (0.00017)
<b>Fallow Deer</b>	0.0033 (0.00021)	0.0026 (0.00015)	0.0021 (0.00014)	0.0031 (0.000085)	0.0024 (0.000094)	0.0017 (0.00016)	0.0034 (0.000057)	0.0030 (0.00011)
<b>HGGQ</b>	0.0042 (0.00030)	0.0037 (0.00036)	0.0029 (0.00047)	0.0050 (0.00029)	0.0029 (0.00023)	0.0014 (0.00032)	0.0046 (0.000084)	0.0042 (0.00011)
<b>QSGQ</b>	0.0038 (0.00014)	0.0034 (0.00022)	0.0027 (0.00023)	0.0047 (0.00011)	0.0030 (0.00020)	0.0017 (0.00022)	0.0043 (0.00011)	0.0044 (0.00011)
<b>HSGQ</b>	0.0042 (0.00024)	0.0038 (0.00035)	0.0021 (0.0003)	0.0049 (0.00023)	0.0036 (0.00027)	0.0016 (0.00033)	0.0047 (0.00015)	0.0045 (0.00016)
<b>HSAQ</b>	0.0031 (0.00017)	0.0027 (0.00014)	0.0021 (0.00012)	0.0033 (0.000070)	0.0023 (0.00010)	0.0015 (0.00019)	0.0032 (0.00011)	0.0030 (0.00011)
<b>HSGK</b>	0.0036 (0.00014)	0.0036 (0.00023)	0.0023 (0.00026)	0.0048 (0.000049)	0.0032 (0.00027)	0.0017 (0.00024)	0.0044 (0.00013)	0.0042 (0.000072)
<b>HSAK</b>	0.0012 (0.00018)	0.0011 (0.00022)	0.00047 (0.00017)	0.0021 (0.000076)	0.00083 (0.00016)	0.00045 (0.00017)	0.0020 (0.000094)	0.0015 (0.000099)
<b>QGGK</b>	0.0017 (0.00018)	0.0017 (0.00019)	0.0008 (0.00019)	0.0025 (0.00024)	0.0011 (0.00026)	0.00044 (0.00011)	0.0020 (0.00022)	0.0011 (0.00022)
<b>Canine</b>	0.0012 (0.00019)	0.00089 (0.00021)	0.00039 (0.00015)	0.0020 (0.000094)	0.00051 (0.00015)	0.00029 (0.00015)	0.0015 (0.00022)	0.0012 (0.00018)

**Supplementary Table 1:** Summary of the amplification rates of the eight CWD isolates across cervid substrates. Average rates as well as standard errors (in parentheses) are shown.

<b>Allele</b>	<b>Isolate 1</b>	<b>Isolate 2</b>	<b>Isolate 3</b>	<b>Isolate 4</b>	<b>Isolate 5</b>	<b>Isolate 6</b>	<b>Isolate 7</b>	<b>Isolate 8</b>
<b>QGAQ</b>	14.12 (0.65)	14.76 (0.61)	12.43 (0.49)	9.103 (0.39)	8.15 (0.41)	11.78 0.5086	12.46 0.5397	14.8 0.595
<b>QGGQ</b>	14.91 (0.90)	15.1 (1.0)	13.76 (0.84)	12.6 (0.63)	10.23 (0.59)	13.47 (0.67)	16.08 (1.1)	15.65 (0.90)
<b>QSAQ</b>	19.78 (0.60)	19 (0.72)	17.7 (0.43)	12.94 (0.36)	12.42 (0.41)	17.72 (0.55)	22.32 (0.46)	20.39 (0.33)
<b>HGAQ</b>	16.44 (0.5)	15.29 (0.56)	14.3 (0.53)	11.3 (0.34)	10.03 (0.31)	13.47 (0.47)	18.19 (0.52)	18.86 (0.35)
<b>QGAK</b>	20.31 (0.72)	18.36 (0.79)	12.03 (0.52)	11.08 (0.35)	9.759 (0.40)	12.68 (0.58)	20.11 (0.56)	20.96 (0.45)
<b>225F</b>	19.3 (1.1)	18.81 (1.0)	18.39 (1.0)	16.06 (0.70)	14.02 (0.68)	13.89 (0.70)	19.07 (0.93)	17.11 (0.96)
<b>132M</b>	19.89 (0.66)	21.64 (0.89)	18.19 (0.61)	14.49 (0.51)	11.38 (0.50)	18.49 (0.64)	20.72 (0.76)	20.5 (1.1)
<b>132L</b>	5.224 (0.084)	6.687 (0.14)	5.588 (0.13)	4.773 (0.16)	3.796 (0.082)	6.121 (0.21)	6.348 (0.12)	5.873 (0.22)
<b>138N</b>	33.47 (1.2)	28.04 (1.6)	27.53 (1.1)	25.17 (0.71)	12.33 (0.91)	20.17 (1.2)	27.12 (0.91)	25.7 (1.2)
<b>MSSM</b>	24.04 (1.0)	26.19 (1.5)	17.26 (0.73)	17.44 (0.71)	11.55 (0.67)	15.82 (0.98)	17.01 (0.70)	16.94 (1.1)
<b>225Y</b>	18.24 (1.5)	26.15 (2.1)	18.4 (1.5)	14.98 (1.1)	7.066 (0.66)	12.37 (1.1)	14.44 (1.2)	9.703 (0.88)
<b>Fallow Deer</b>	9.068 (0.27)	9.867 (0.36)	8.417 (0.30)	4.435 (0.18)	4.271 (0.19)	7.121 (0.27)	9.106 (0.22)	8.607 (0.21)
<b>HGGQ</b>	14.9 (0.71)	15.36 (0.84)	13.41 (0.68)	13.65 (0.69)	12.17 (0.49)	12.07 (0.63)	15.86 (0.84)	15 (0.72)
<b>QSGQ</b>	20.29 (0.87)	21.14 (1.1)	19.31 (0.87)	17.05 (0.81)	13.88 (0.59)	17.47 (0.72)	21.41 (1.0)	22.55 (0.90)
<b>HSGQ</b>	23.06 (0.84)	19.2 (0.89)	17.45 (0.69)	14.17 (0.61)	12.17 (0.58)	15.8 (0.71)	21 (0.81)	25.05 (0.77)
<b>HSAQ</b>	32.06 (0.95)	23.93 (1.2)	19.49 (0.85)	16.47 (0.66)	16.08 (0.67)	20.87 (1.0)	28.98 (0.92)	29.74 (0.74)
<b>HSGK</b>	20.89 (1.1)	21.03 (1.3)	19.79 (1.1)	18.09 (0.99)	16.66 (0.92)	17.4 (0.96)	22.86 (1.3)	22.64 (1.3)
<b>HSAK</b>	26.24 (1.5)	21.06 (1.3)	15.32 (0.79)	17.71 (0.64)	18.9 (0.78)	18.39 (1.0)	27.47 (1.4)	29.74 (1.7)
<b>QGGK</b>	17.94 (0.73)	20.73 (0.85)	10.87 (0.57)	11.78 (0.37)	9.858 (0.32)	6.941 (0.33)	20.32 (0.79)	24.18 (0.92)
<b>Canine</b>	10.61 (0.50)	10.8 (0.41)	10.91 (0.51)	11.33 (0.31)	9.586 (0.38)	9.828 (0.35)	11.97 (0.22)	11.02 (0.42)

**Supplementary Table 2:** Summary of the amyloid seeding efficiencies of the eight CWD isolates across cervid substrates. Average efficiencies as well as standard errors (in parentheses) are shown.