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Table 13-1. PRD1 genes, open reading frames (ORF) and corresponding proteins

Gene <sup>1</sup>	ORF <sup>1</sup>	Coordinates in PRD1 genome <sup>2</sup>	Protein	Mass kDa <sup>3</sup>	Description <sup>4</sup>
VIII		233..1012	P8	29.5	Genome terminal protein (N)
I		1016..2677	P1	63.3	DNA polymerase (N)
	(ORF a)	2415..2495		3.1	
XV		2679..3128	P15	17.3	Muramidase (L)
II		3128..4903	P2	63.7	Receptor binding (S)
	(ORF b)	3453..3587		5.1	
XXXI	(ORF c)	4907..5287	P31	13.7	Pentameric base of spike (S)
	(ORF d)	5103..5294		7.2	
V		5287..6309	P5	34.2	Trimeric spike protein (S)
XVII		6328..6588	P17	9.5	Assembly (A, N)
XXXIII	(ORF f)	6578..6784	P33	7.5	Assembly (A, N)
VI		6784..7284	P6	17.6	Minor capsid protein. DNA packaging (C, P)
X		7029..7640	P10	20.6	Assembly (A, N)
IX		7637..8320	P9	25.8	Minor capsid protein. DNA packaging ATPase (C; P)
	(ORF i)	8332..8460		4.5	
XX	(ORF j)	8460..8588	P20	4.7	DNA packaging (M, P)
III		8595..9782	P3	43.1	Major capsid protein (C)
	(ORF h)	9427..9681		9.2	

XXII	(ORF k)	9801..9944	P22	5.5	DNA packaging (M, P)
	(ORF l)	10044..10166		4.4	
XVIII	(ORF m)	10168..10440	P18	9.8	DNA delivery (M)
XXXII	(ORF n)	10440..10604	P32	5.4	DNA delivery (M)
XXXIV	(ORF o)	10617..10823	P34	6.7	(M)
XXX	(ORF p)	10833..11087	P30	9.0	Minor capsid protein (C)
	(ORF q)	11090..11200		4.2	
XI		11202..11825	P11	22.2	DNA delivery (M)
XVI	(ORF s)	11836..12189	P16	12.6	Infectivity (M)
VII		12190..12987	P7	27.1	DNA delivery, Transglycosylase (L, M)
XIV		12535..12987	P14	15.0	DNA delivery (M)
XXXV	(ORF t)	12984..13337	P35	12.8	Holin (L)
	(ORF u)	13390..13692		10.6	
	(ORF v)	13616..13888		10.2	
XIX		14132..13848 <sup>5</sup>	P19	10.5	ssDNA binding protein (N)
XII		14687..14205 <sup>5</sup>	P12	16.6	ssDNA binding protein (N)

<sup>1</sup> ORF shown to code for functional proteins are classified as genes and are given

Roman numerals

<sup>2</sup> GenBank accession No M69077

<sup>3</sup> the mass does not include the initial methionine if not present in the mature protein

<sup>4</sup> (N) nonstructural early protein, (M) integral membrane protein based on transmembrane helix prediction and location in the viral membrane, (S) spike complex protein, (A) assembly protein, (P) packaging protein, (C) capsid protein, (L) lysis protein

<sup>5</sup> the gene is transcribed in the opposite direction to that of the rest of the genes