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Table 14-1. PM2 genes, open reading frames (ORF) and corresponding proteins

Gene/ORF ¹	Coordinates in PM2 genome ²	Protein	Mass kDa ³	Description ⁴
XV	550..77 ⁵	P15	18.1	Transcription factor (N)
ORF b	755..663 ⁵		5.5	
XVI	1128..850 ⁵	P16	10.3	Transcription factor (N)
ORF d	1359..1583		8.5	
ORF e	1580..1822		8.9	
XII	1779..3719	P12	73.4	Replication initiation protein (N)
XIII	3716..3910	P13	7.2	Transcription factor (N)
XIV	3907..4212	P14	11.0	Transcription factor (N)
ORF h	4212..4643		15.7	
IX	4615..5271	P9	24.7	ATP binding site
VII	5406..5510	P7	3.6	(M)
II	5523..6332	P2	30.2	Major capsid protein
III	6345..6659	P3	10.8	(M)
IV	6659..6781	P4	4.4	(M)
VIII	6781..7008	P8	7.3	(M)
ORF j	7079..7918		29.0	
I	7918..8925	P1	37.5	Spike protein
V	8925..9407	P5	17.9	(M)
VI	9400..9783	P6	14.3	(M)
ORF k	9780..9941		6.0	
ORF l	9922..10077		5.7	

¹ ORFs shown to code for functional proteins are classified as genes and are given a Roman numeral

² accession No AF155037

³ the mass does not include the initial methionine if not present in the mature protein

⁴ (N) nonstructural protein, (M) integral membrane protein based on transmembrane helix prediction and location in the viral membrane

⁵ the gene/ORF is transcribed in the opposite direction to that of the rest of the genes or ORFs