

## LAMPIRAN

### Lampiran 1. Sekuens protein L1 HPV tipe HR

1. AAD33259.1 L1 HPV 16
2. AAO85415.1 L1 Human papillomavirus type 16
3. AAD33259.1 L1 Human papillomavirus type 16
4. AMS04011.1 L1 Human papillomavirus type 16
5. AIQ82831.1 L1 Human papillomavirus type 16
6. AMS04003.1 L1 Human papillomavirus type 16
7. AMS04019.1 L1 Human papillomavirus type 16
8. AMS04026.1 L1 Human papillomavirus type 16
9. AMS04035.1 L1 Human papillomavirus type 16
10. AMS04051.1 L1 Human papillomavirus type 16
11. AMS04043.1 L1 Human papillomavirus type 16
12. AML83910.1 L1 Human papillomavirus type 16
13. AIQ82846.1 L1 Human papillomavirus type 16
14. AIQ82845.1 L1 Human papillomavirus type 16
15. AIQ82844.1 L1 Human papillomavirus type 16
16. AIQ82843.1 L1 Human papillomavirus type 16
17. AIQ82842.1 L1 Human papillomavirus type 16
18. AIQ82841.1 L1 Human papillomavirus type 16
19. AIQ82840.1 L1 Human papillomavirus type 16
20. AIQ82839.1 L1 Human papillomavirus type 16
21. AIQ82838.1 L1 Human papillomavirus type 16
22. AIQ82837.1 L1 Human papillomavirus type 16
23. AIQ82836.1 L1 Human papillomavirus type 16
24. AIQ82835.1 L1 Human papillomavirus type 16
25. AIQ82834.1 L1 Human papillomavirus type 16
26. AIQ82833.1 L1 Human papillomavirus type 16
27. AIQ82832.1 L1 Human papillomavirus type 16
28. AIQ82830.1 L1 Human papillomavirus type 16
29. AIQ82829.1 L1 Human papillomavirus type 16
30. AIQ82828.1 L1 Human papillomavirus type 16
31. AIQ82827.1 L1 Human papillomavirus type 16
32. AIQ82825.1 L1 Human papillomavirus type 16
33. AIQ82826.1 L1 Human papillomavirus type 16
34. AIQ82824.1 L1 Human papillomavirus type 16
35. AIQ82823.1 L1 Human papillomavirus type 16
36. AIQ82822.1 L1 Human papillomavirus type 16
37. AIQ82821.1 L1 Human papillomavirus type 16
38. AIO82820.1 L1 Human papillomavirus type 16

Species/Abbrv
39. AIQ82819.1 L1 Human papillomavirus type 16
40. AIQ82818.1 L1 Human papillomavirus type 16
41. AIQ82817.1 L1 Human papillomavirus type 16
42. AIQ82816.1 L1 Human papillomavirus type 16
43. AAV91667.1 L1 Human papillomavirus type 16
44. AAV91675.1 L1 Human papillomavirus type 16
45. AAV91683.1 L1 Human papillomavirus type 16
46. AAV91691.1 L1 Human papillomavirus type 16
47. AAV91659.1 L1 Human papillomavirus type 16
48. AAV91651.1 L1 Human papillomavirus type 16
49. ALT54634.1 L1 Human papillomavirus type 16
50. ALT54602.1 L1 Human papillomavirus type 16
51. AAO19439.1 L1 Human papillomavirus type 16
52. ALT54626.1 L1 Human papillomavirus type 16
53. ALT54618.1 L1 Human papillomavirus type 16
54. ALT54610.1 L1 Human papillomavirus type 16
55. ALT54594.1 L1 Human papillomavirus type 16
56. ABV21641.1 L1 Human papillomavirus type 16
57. ABF06542.1 L1 Human papillomavirus type 16
58. ADH94047.1 L1 Human papillomavirus type 16
59. ALB35315.1 L1 Human papillomavirus type 16
60. ALB35307.1 L1 Human papillomavirus type 16
61. ALB35300.1 L1 Human papillomavirus type 16
62. ALB35292.1 L1 Human papillomavirus type 16
63. ALB35284.1 L1 Human papillomavirus type 16
64. ALB35275.1 L1 Human papillomavirus type 16
65. ALB35268.1 L1 Human papillomavirus type 16
66. ALB35260.1 L1 Human papillomavirus type 16
67. ALB35252.1 L1 Human papillomavirus type 16
68. ALB35244.1 L1 Human papillomavirus type 16
69. ALB35236.1 L1 Human papillomavirus type 16
70. ALB35336.1 L1 Human papillomavirus type 16
71. ALB35329.1 L1 Human papillomavirus type 16
72. ALB35322.1 L1 Human papillomavirus type 16
73. AIU47931.1 L1 Human papillomavirus type 16
74. AFS33364.1 L1 Human papillomavirus type 16
75. AFS33363.1 L1 Human papillomavirus type 16
76. AFS33362.1 L1 Human papillomavirus type 16

## Species/Abbrev

77.	A7S33360.1	L1	Human papillomavirus type 16
78.	A7S33361.1	L1	Human papillomavirus type 16
79.	A7S33369.1	L1	Human papillomavirus type 16
80.	A7S33368.1	L1	Human papillomavirus type 16
81.	A7S33367.1	L1	Human papillomavirus type 16
82.	A7S33366.1	L1	Human papillomavirus type 16
83.	A7S33365.1	L1	Human papillomavirus type 16
84.	A7S33364.1	L1	Human papillomavirus type 16
85.	A7S33363.1	L1	Human papillomavirus type 16
86.	A7S33362.1	L1	Human papillomavirus type 16
87.	A7S33361.1	L1	Human papillomavirus type 16
88.	A7S33360.1	L1	Human papillomavirus type 16
89.	A7S33349.1	L1	Human papillomavirus type 16
90.	A7S33348.1	L1	Human papillomavirus type 16
91.	A7S33347.1	L1	Human papillomavirus type 16
92.	A7S33346.1	L1	Human papillomavirus type 16
93.	A7S33345.1	L1	Human papillomavirus type 16
94.	A7S33344.1	L1	Human papillomavirus type 16
95.	A7S33343.1	L1	Human papillomavirus type 16
96.	A7S33342.1	L1	Human papillomavirus type 16
97.	A7S33341.1	L1	Human papillomavirus type 16
98.	A7S33340.1	L1	Human papillomavirus type 16
99.	A7S33338.1	L1	Human papillomavirus type 16
100.	A7S33339.1	L1	Human papillomavirus type 16
101.	A7S33337.1	L1	Human papillomavirus type 16
102.	A7S33336.1	L1	Human papillomavirus type 16
103.	A7S33335.1	L1	Human papillomavirus type 16
104.	A7S33334.1	L1	Human papillomavirus type 16
105.	NP_041332.2	major capsid protein	L1 Human papillomavirus type 16
106.	AAM29174.1	major capsid protein	L1 partial Human papillomavirus type 16
107.	AAM29173.1	major capsid protein	L1 partial Human papillomavirus type 16
108.	AAM29172.1	major capsid protein	L1 partial Human papillomavirus type 16
109.	AAM29169.1	major capsid protein	L1 partial Human papillomavirus type 16
110.	BAC18726.1	L1 protein	Human papillomavirus type 16
111.	BAC18718.1	L1 protein	Human papillomavirus type 16
112.	BAC18710.1	L1 protein	Human papillomavirus type 16
113.	BAC18702.1	L1 protein	Human papillomavirus type 16
114.	BAC18694.1	L1 protein	Human papillomavirus type 16



Species/Abbrev
115. BAC18678.1 L1 protein Human papillomavirus type 16
116. BAC18685.1 L1 protein Human papillomavirus type 16
117. AAZE1569.1 L1 major capsid protein Human papillomavirus type 16
118. ACS52699.1 L1 protein Human papillomavirus type 16
119. ACS52691.1 L1 protein Human papillomavirus type 16
120. ACS52683.1 L1 protein Human papillomavirus type 16
121. ACS52675.1 L1 protein Human papillomavirus type 16
122. ACS52667.1 L1 protein Human papillomavirus type 16
123. ACS52659.1 L1 protein Human papillomavirus type 16
124. ACS52651.1 L1 protein Human papillomavirus type 16
125. ACA14209.1 L1 protein Human papillomavirus type 16
126. ACA14201.1 L1 protein Human papillomavirus type 16
127. ACA14193.1 L1 protein Human papillomavirus type 16
128. ANY26497.1 major capsid protein L1 Human papillomavirus type 16
129. ANY26495.1 major capsid protein L1 Human papillomavirus type 16
130. ANY26495.1 major capsid protein L1 Human papillomavirus type 16
131. ANY26494.1 major capsid protein L1 Human papillomavirus type 16
132. ANY26492.1 major capsid protein L1 Human papillomavirus type 16
133. ANY26491.1 major capsid protein L1 Human papillomavirus type 16
134. ANY26490.1 major capsid protein L1 Human papillomavirus type 16
135. ANY26488.1 major capsid protein L1 Human papillomavirus type 16
136. ANY26487.1 major capsid protein L1 Human papillomavirus type 16
137. ANY26484.1 major capsid protein L1 Human papillomavirus type 16
138. ANY26483.1 major capsid protein L1 Human papillomavirus type 16
139. ANY26482.1 major capsid protein L1 Human papillomavirus type 16
140. ANY26481.1 major capsid protein L1 Human papillomavirus type 16
141. ANY26480.1 major capsid protein L1 Human papillomavirus type 16
142. ANY26479.1 major capsid protein L1 Human papillomavirus type 16
143. ANY26478.1 major capsid protein L1 Human papillomavirus type 16
144. ANY26477.1 major capsid protein L1 Human papillomavirus type 16
145. ANY26475.1 major capsid protein L1 Human papillomavirus type 16
146. ANY26475.1 major capsid protein L1 Human papillomavirus type 16
147. ANY26474.1 major capsid protein L1 Human papillomavirus type 16
148. ANY26473.1 major capsid protein L1 Human papillomavirus type 16
149. ANY26472.1 major capsid protein L1 Human papillomavirus type 16
150. ANY26471.1 major capsid protein L1 Human papillomavirus type 16
151. ANY26469.1 major capsid protein L1 Human papillomavirus type 16
152. ANY26468.1 major capsid protein L1 Human papillomavirus type 16

Species/Abbrv
153. ANY26467.1 major capsid protein L1 Human papillomavirus type 16
154. ANY26466.1 major capsid protein L1 Human papillomavirus type 16
155. ANY26464.1 major capsid protein L1 Human papillomavirus type 16
156. ANY26463.1 major capsid protein L1 Human papillomavirus type 16
157. ANY26462.1 major capsid protein L1 Human papillomavirus type 16
158. ANY26461.1 major capsid protein L1 Human papillomavirus type 16
159. ANY26459.1 major capsid protein L1 Human papillomavirus type 16
160. ANY26458.1 major capsid protein L1 Human papillomavirus type 16
161. ANY26457.1 major capsid protein L1 Human papillomavirus type 16
162. ANY26455.1 major capsid protein L1 Human papillomavirus type 16
163. ANY26454.1 major capsid protein L1 Human papillomavirus type 16
164. ANY26453.1 major capsid protein L1 Human papillomavirus type 16
165. ANY26452.1 major capsid protein L1 Human papillomavirus type 16
166. ANY26451.1 major capsid protein L1 Human papillomavirus type 16
167. AJW82216.1 L1 protein Human papillomavirus type 16
168. AJW82215.1 L1 protein Human papillomavirus type 16
169. AJW82214.1 L1 protein Human papillomavirus type 16
170. AJW82213.1 L1 protein Human papillomavirus type 16
171. AJW82212.1 L1 protein Human papillomavirus type 16
172. AJW82211.1 L1 protein Human papillomavirus type 16
173. AJW82210.1 L1 protein Human papillomavirus type 16
174. AJW82209.1 L1 protein Human papillomavirus type 16
175. AJW82208.1 L1 protein Human papillomavirus type 16
176. AJW82207.1 L1 protein Human papillomavirus type 16
177. AJW82206.1 L1 protein Human papillomavirus type 16
178. AJW82205.1 L1 protein Human papillomavirus type 16
179. AJW82203.1 L1 protein Human papillomavirus type 16
180. AJW82204.1 L1 protein Human papillomavirus type 16
181. AJW82202.1 L1 protein Human papillomavirus type 16
182. AJW82201.1 L1 protein Human papillomavirus type 16
183. AJW82200.1 L1 protein Human papillomavirus type 16
184. AJW82199.1 L1 protein Human papillomavirus type 16
185. AJW82198.1 L1 protein Human papillomavirus type 16
186. AJW82197.1 L1 protein Human papillomavirus type 16
187. AJW82196.1 L1 protein Human papillomavirus type 16
188. AJW82195.1 L1 protein Human papillomavirus type 16
189. AJW82194.1 L1 protein Human papillomavirus type 16
190. AJW82193.1 L1 protein Human papillomavirus type 16



Species/Abbrv
191. AJW82192.1 L1 protein Human papillomavirus type 16
192. AJW82191.1 L1 protein Human papillomavirus type 16
193. AJW82190.1 L1 protein Human papillomavirus type 16
194. ANY26493.1 major capsid protein L1 Human papillomavirus type 16
195. ANY26499.1 major capsid protein L1 Human papillomavirus type 16
196. ANY26496.1 major capsid protein L1 Human papillomavirus type 16
197. ANY26495.1 major capsid protein L1 Human papillomavirus type 16
198. ANY26470.1 major capsid protein L1 Human papillomavirus type 16
199. ANY26465.1 major capsid protein L1 Human papillomavirus type 16
200. ANY26460.1 major capsid protein L1 Human papillomavirus type 16
201. ANY26456.1 major capsid protein L1 Human papillomavirus type 16
202. EANG3273.1 L1 protein Human papillomavirus type 16
203. EANG3265.1 L1 protein Human papillomavirus type 16
204. EANG3257.1 L1 protein Human papillomavirus type 16
205. EANG3249.1 L1 protein Human papillomavirus type 16
206. EANG3241.1 L1 protein Human papillomavirus type 16
207. EANG3233.1 L1 protein Human papillomavirus type 16
208. EANG3225.1 L1 protein Human papillomavirus type 16
209. AEZ01752.1 L1 protein Human papillomavirus type 16
210. AEZ01744.1 L1 protein Human papillomavirus type 16
211. AEZ01736.1 L1 protein Human papillomavirus type 16
212. AEZ01729.1 L1 protein Human papillomavirus type 16
213. AEZ01721.1 L1 protein Human papillomavirus type 16
214. AEZ01713.1 L1 protein Human papillomavirus type 16
215. AEZ01705.1 L1 protein Human papillomavirus type 16
216. AEZ01697.1 L1 protein Human papillomavirus type 16
217. ACG75893.1 L1 protein Human papillomavirus type 16
218. gi 25272132 gb AAN74789.1 L1 partial Human papillomavirus type 18
219. AGU90430.1 L1 Human papillomavirus type 13
220. AGU90422.1 L1 Human papillomavirus type 13
221. AGU90414.1 L1 Human papillomavirus type 13
222. AGU90406.1 L1 Human papillomavirus type 13
223. AGU90398.1 L1 Human papillomavirus type 13
224. AGU90390.1 L1 Human papillomavirus type 13
225. AGU90382.1 L1 Human papillomavirus type 13
226. AGU90374.1 L1 Human papillomavirus type 13
227. AGU90366.1 L1 Human papillomavirus type 13
228. AGU90358.1 L1 Human papillomavirus type 13

229.	AGU90350.1	L1	Human papillomavirus type 18
230.	AGU90342.1	L1	Human papillomavirus type 18
231.	AGU90334.1	L1	Human papillomavirus type 18
232.	AGU90326.1	L1	Human papillomavirus type 18
233.	AGU90318.1	L1	Human papillomavirus type 18
234.	AGU90310.1	L1	Human papillomavirus type 18
235.	AGU90302.1	L1	Human papillomavirus type 18
236.	AGU90294.1	L1	Human papillomavirus type 18
237.	AGU90286.1	L1	Human papillomavirus type 18
238.	AGU90278.1	L1	Human papillomavirus type 18
239.	AGU90270.1	L1	Human papillomavirus type 18
240.	AGU90262.1	L1	Human papillomavirus type 18
241.	AGU90254.1	L1	Human papillomavirus type 18
242.	ALT54642.1	L1	Human papillomavirus type 18
243.	ACF37312.1	L1	Human papillomavirus type 18
244.	ADC35723.1	L1	Human papillomavirus type 18
245.	ADC35715.1	L1	Human papillomavirus type 18
246.	ADC35707.1	L1	Human papillomavirus type 18
247.	ADC35699.1	L1	Human papillomavirus type 18
248.	ADC35691.1	L1	Human papillomavirus type 18
249.	ADC35683.1	L1	Human papillomavirus type 18
250.	ADC35675.1	L1	Human papillomavirus type 18
251.	ADC35667.1	L1	Human papillomavirus type 18
252.	ADC35659.1	L1	Human papillomavirus type 18
253.	ABP99807.1	L1	Human papillomavirus type 18
254.	ABP99799.1	L1	Human papillomavirus type 18
255.	ABP99791.1	L1	Human papillomavirus type 18
256.	ABP99783.1	L1	Human papillomavirus type 18
257.	ABP99775.1	L1	Human papillomavirus type 18
258.	ABP99767.1	L1	Human papillomavirus type 18
259.	ABP99759.1	L1	Human papillomavirus type 18
260.	ABP99751.1	L1	Human papillomavirus type 18
261.	ABP99743.1	L1	Human papillomavirus type 18
262.	ABP99735.1	L1	Human papillomavirus type 18
263.	ABP99719.1	L1	Human papillomavirus type 18
264.	ABP99727.1	L1	Human papillomavirus type 18
265.	ABP99711.1	L1	Human papillomavirus type 18
266.	CAA28671.1	L1	protein Human papillomavirus type 18



267.	AGG40789.1	L1 protein	Human papillomavirus type 18
268.	ANA05710.1	major capsid L1 protein	Human papillomavirus type 18
269.	ANA05707.1	major capsid L1 protein	Human papillomavirus type 18
270.	ANA05705.1	major capsid L1 protein	Human papillomavirus type 18
271.	ANA05702.1	major capsid L1 protein	Human papillomavirus type 18
272.	ANA05701.1	major capsid L1 protein	Human papillomavirus type 18
273.	ANA05697.1	major capsid L1 protein	Human papillomavirus type 18
274.	ANA05696.1	major capsid L1 protein	Human papillomavirus type 18
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276.	ANA05694.1	major capsid L1 protein	Human papillomavirus type 18
277.	ANA05693.1	major capsid L1 protein	Human papillomavirus type 18
278.	ANA05691.1	major capsid L1 protein	Human papillomavirus type 18
279.	ANA05688.1	major capsid L1 protein	Human papillomavirus type 18
280.	ANA05687.1	major capsid L1 protein	Human papillomavirus type 18
281.	ANA05685.1	major capsid L1 protein	Human papillomavirus type 18
282.	ANA05684.1	major capsid L1 protein	Human papillomavirus type 18
283.	ANA05681.1	major capsid L1 protein	Human papillomavirus type 18
284.	ANA05680.1	major capsid L1 protein	Human papillomavirus type 18
285.	ANA05679.1	major capsid L1 protein	Human papillomavirus type 18
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291.	ANA05672.1	major capsid L1 protein	Human papillomavirus type 18
292.	ANA05671.1	major capsid L1 protein	Human papillomavirus type 18
293.	ANA05669.1	major capsid L1 protein	Human papillomavirus type 18
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304.	ANA05651.1	major capsid L1 protein	Human papillomavirus type 18



305.	ANA05645.1	major capsid L1 protein	Human papillomavirus type 13
306.	ANA05646.1	major capsid L1 protein	Human papillomavirus type 13
307.	ANA05646.1	major capsid L1 protein	Human papillomavirus type 13
308.	ANA05646.1	major capsid L1 protein	Human papillomavirus type 13
309.	ANA05644.1	major capsid L1 protein	Human papillomavirus type 13
310.	ANA05642.1	major capsid L1 protein	Human papillomavirus type 13
311.	ANA05641.1	major capsid L1 protein	Human papillomavirus type 13
312.	ANA05638.1	major capsid L1 protein	Human papillomavirus type 13
313.	ANA05637.1	major capsid L1 protein	Human papillomavirus type 13
314.	ANA05636.1	major capsid L1 protein	Human papillomavirus type 13
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316.	ANA05634.1	major capsid L1 protein	Human papillomavirus type 13
317.	ANA05631.1	major capsid L1 protein	Human papillomavirus type 13
318.	ANA05625.1	major capsid L1 protein	Human papillomavirus type 13
319.	ANA05626.1	major capsid L1 protein	Human papillomavirus type 13
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321.	ANA05626.1	major capsid L1 protein	Human papillomavirus type 13
322.	ANA05625.1	major capsid L1 protein	Human papillomavirus type 13
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325.	ANA05616.1	major capsid L1 protein	Human papillomavirus type 13
326.	ANA05615.1	major capsid L1 protein	Human papillomavirus type 13
327.	ANA05613.1	major capsid L1 protein	Human papillomavirus type 13
328.	ANA05612.1	major capsid L1 protein	Human papillomavirus type 13
329.	ANA05610.1	major capsid L1 protein	Human papillomavirus type 13
330.	ANA05609.1	major capsid L1 protein	Human papillomavirus type 13
331.	ANA05607.1	major capsid L1 protein	Human papillomavirus type 13
332.	ANA05604.1	major capsid L1 protein	Human papillomavirus type 13
333.	AAF20601.1	L1 protein	Human papillomavirus type 16
334.	ANA05711.1	major capsid L1 protein	Human papillomavirus type 13
335.	gi 338969591 gb AEJ33646.1	L1 partial	Human papillomavirus type 31
336.	ANB49651.1	L1	Human papillomavirus type 31
337.	ANB49650.1	L1	Human papillomavirus type 31
338.	ANB49659.1	L1	Human papillomavirus type 31
339.	ANB49658.1	L1	Human papillomavirus type 31
340.	ANB49657.1	L1	Human papillomavirus type 31
341.	ANB49656.1	L1	Human papillomavirus type 31
342.	ANB49654.1	L1	Human papillomavirus type 31

343.	ANB49653.1	L1	Human papillomavirus type 31
344.	ANB49652.1	L1	Human papillomavirus type 31
345.	ANB49651.1	L1	Human papillomavirus type 31
346.	ANB49650.1	L1	Human papillomavirus type 31
347.	ANB49649.1	L1	Human papillomavirus type 31
348.	ANB49648.1	L1	Human papillomavirus type 31
349.	ANB49647.1	L1	Human papillomavirus type 31
350.	ANB49646.1	L1	Human papillomavirus type 31
351.	ANB49655.1	L1	Human papillomavirus type 31
352.	ALT54673.1	L1	Human papillomavirus type 31
353.	ALT54655.1	L1	Human papillomavirus type 31
354.	ALT54657.1	L1	Human papillomavirus type 31
355.	AIG59271.1	major capsid protein L1	Human papillomavirus type 31
356.	AIG59269.1	major capsid protein L1	Human papillomavirus type 31
357.	AIG59267.1	major capsid protein L1	Human papillomavirus type 31
358.	AIG59263.1	major capsid protein L1	Human papillomavirus type 31
359.	AIG59265.1	major capsid protein L1	Human papillomavirus type 31
360.	AIG59261.1	major capsid protein L1	Human papillomavirus type 31
361.	AIG59259.1	major capsid protein L1	Human papillomavirus type 31
362.	AIG59257.1	major capsid protein L1	Human papillomavirus type 31
363.	AIG59255.1	major capsid protein L1	Human papillomavirus type 31
364.	AIG59253.1	major capsid protein L1	Human papillomavirus type 31
365.	AIG59251.1	major capsid protein L1	Human papillomavirus type 31
366.	AIG59249.1	major capsid protein L1	Human papillomavirus type 31
367.	AIG59247.1	major capsid protein L1	Human papillomavirus type 31
368.	AIG59245.1	major capsid protein L1	Human papillomavirus type 31
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373.	AIG59235.1	major capsid protein L1	Human papillomavirus type 31
374.	AIG59233.1	major capsid protein L1	Human papillomavirus type 31
375.	AEI61093.1	late protein L1	Human papillomavirus type 31
376.	AEI61085.1	late protein L1	Human papillomavirus type 31
377.	AEI61077.1	late protein L1	Human papillomavirus type 31
378.	AEI61069.1	late protein L1	Human papillomavirus type 31
379.	AEI61061.1	late protein L1	Human papillomavirus type 31
380.	AEI61053.1	late protein L1	Human papillomavirus type 31



331.	AEI61045.1	Late protein L1	Human papillomavirus type 31
332.	AEI61037.1	Late protein L1	Human papillomavirus type 31
333.	AEI61029.1	Late protein L1	Human papillomavirus type 31
334.	AEI61021.1	Late protein L1	Human papillomavirus type 31
335.	AEI61013.1	Late protein L1	Human papillomavirus type 31
336.	AEI61005.1	Late protein L1	Human papillomavirus type 31
337.	AEI60997.1	Late protein L1	Human papillomavirus type 31
338.	AEI60989.1	Late protein L1	Human papillomavirus type 31
339.	AEI60981.1	Late protein L1	Human papillomavirus type 31
340.	AEI60965.1	Late protein L1	Human papillomavirus type 31
341.	AEI60973.1	Late protein L1	Human papillomavirus type 31
342.	AEI60957.1	Late protein L1	Human papillomavirus type 31
343.	AEI60949.1	Late protein L1	Human papillomavirus type 31
344.	AEI60941.1	Late protein L1	Human papillomavirus type 31
345.	AEI60933.1	Late protein L1	Human papillomavirus type 31
346.	AEI60925.1	Late protein L1	Human papillomavirus type 31
347.	sp P17388.1	VL1_EPV31	RecName: Full Major capsid protein L1
348.	g_ 151414528 gb ABSI1662.1	major capsid protein L1	partial Human papillomavirus
349.	ACL12333.1	L1	Human papillomavirus type 33
400.	ALT54735.1	L1	Human papillomavirus type 33
401.	ALT54639.1	L1	Human papillomavirus type 33
402.	ALT54631.1	L1	Human papillomavirus type 33
403.	ALT54637.1	L1	Human papillomavirus type 33
404.	ACV34017.1	L1	HPV 33
405.	AEI61437.1	Late protein L1	Human papillomavirus type 33
406.	AEI61429.1	Late protein L1	Human papillomavirus type 33
407.	AEI61421.1	Late protein L1	Human papillomavirus type 33
408.	AEI61413.1	Late protein L1	Human papillomavirus type 33
409.	AEI61405.1	Late protein L1	Human papillomavirus type 33
410.	AEI61397.1	Late protein L1	Human papillomavirus type 33
411.	AEI61389.1	Late protein L1	Human papillomavirus type 33
412.	AEI61381.1	Late protein L1	Human papillomavirus type 33
413.	AEI61373.1	Late protein L1	Human papillomavirus type 33
414.	AEI61365.1	Late protein L1	Human papillomavirus type 33
415.	AEI61357.1	Late protein L1	Human papillomavirus type 33
416.	AEI61349.1	Late protein L1	Human papillomavirus type 33
417.	AEI61341.1	Late protein L1	Human papillomavirus type 33
418.	AEI61333.1	Late protein L1	Human papillomavirus type 33

419.	AEI61325.1	late protein L1	Human papillomavirus type 35
420.	AEI61317.1	late protein L1	Human papillomavirus type 35
421.	AEI61309.1	late protein L1	Human papillomavirus type 35
422.	AEI61301.1	late protein L1	Human papillomavirus type 35
423.	AEI61293.1	late protein L1	Human papillomavirus type 35
424.	AEI61285.1	late protein L1	Human papillomavirus type 35
425.	AEI61277.1	late protein L1	Human papillomavirus type 35
426.	AEI61269.1	late protein L1	Human papillomavirus type 35
427.	AEI61261.1	late protein L1	Human papillomavirus type 35
428.	ACV84035.1	major capsid protein L1	Human papillomavirus type 35
429.	ACV84034.1	major capsid protein L1	Human papillomavirus type 35
430.	ACV84033.1	major capsid protein L1	Human papillomavirus type 35
431.	ACV84032.1	major capsid protein L1	Human papillomavirus type 35
432.	ACV84031.1	major capsid protein L1	Human papillomavirus type 35
433.	ACV84030.1	major capsid protein L1	Human papillomavirus type 35
434.	ACV84029.1	major capsid protein L1	Human papillomavirus type 35
435.	ACV84028.1	major capsid protein L1	Human papillomavirus type 35
436.	ACV84027.1	major capsid protein L1	Human papillomavirus type 35
437.	ACV84026.1	major capsid protein L1	Human papillomavirus type 35
438.	ACV84025.1	major capsid protein L1	Human papillomavirus type 35
439.	ACV84024.1	major capsid protein L1	Human papillomavirus type 35
440.	ACV84023.1	major capsid protein L1	Human papillomavirus type 35
441.	ACV84022.1	major capsid protein L1	Human papillomavirus type 35
442.	ACV84021.1	major capsid protein L1	Human papillomavirus type 35
443.	ACV84020.1	major capsid protein L1	Human papillomavirus type 35
444.	ACV84019.1	major capsid protein L1	Human papillomavirus type 35
445.	ACV84018.1	major capsid protein L1	Human papillomavirus type 35
446.	ACV84017.1	major capsid protein L1	Human papillomavirus type 35
447.	ACV84016.1	major capsid protein L1	Human papillomavirus type 35
448.	sp P27232.2 VLI HPV35	RecName: Full Major capsid protein L1	
449.	AAA46972.1	major capsid protein	Human papillomavirus type 35
450.	AFN27369.1	major capsid protein	Human papillomavirus type 35
451.	AFN27355.1	major capsid protein	Human papillomavirus type 35
452.	AFN27362.1	major capsid protein	Human papillomavirus type 35
453.	AFN27348.1	major capsid protein	Human papillomavirus type 35
454.	AGU90581.1	L1	HPV 39
455.	AGU90573.1	L1	Human papillomavirus type 39
456.	AGU90581.1	L1	Human papillomavirus type 39



457.	AGU91565.1	L1	Human papillomavirus type 39
458.	AGU91557.1	L1	Human papillomavirus type 39
459.	AGU91549.1	L1	Human papillomavirus type 39
460.	AGU91541.1	L1	Human papillomavirus type 39
461.	AGU91533.1	L1	Human papillomavirus type 39
462.	AGU91525.1	L1	Human papillomavirus type 39
463.	AGU91517.1	L1	Human papillomavirus type 39
464.	AGU91509.1	L1	Human papillomavirus type 39
465.	AGU91501.1	L1	Human papillomavirus type 39
466.	AGU91493.1	L1	Human papillomavirus type 39
467.	AGU91485.1	L1	Human papillomavirus type 39
468.	AGU91477.1	L1	Human papillomavirus type 39
469.	AGU91469.1	L1	Human papillomavirus type 39
470.	AGU91461.1	L1	Human papillomavirus type 39
471.	AGU91453.1	L1	Human papillomavirus type 39
472.	AGU91437.1	L1	Human papillomavirus type 39
473.	AGU91445.1	L1	Human papillomavirus type 39
474.	AAA47156.1	major capsid protein	Human papillomavirus type 39
475.	ABW91131.1	major capsid protein	L1 partial Human papillomavirus type 35
476.	AFP21186.1	major capsid protein	L1 Human papillomavirus type 35
477.	AFP21185.1	major capsid protein	L1 Human papillomavirus type 35
478.	AFP21184.1	major capsid protein	L1 Human papillomavirus type 35
479.	ALV81695.1	L1	HPV 45
480.	AAV81494.1	L1	Human papillomavirus type 45
481.	AGU91648.1	L1	Human papillomavirus type 45
482.	AGU91642.1	L1	Human papillomavirus type 45
483.	AGU91636.1	L1	Human papillomavirus type 45
484.	AGU91630.1	L1	Human papillomavirus type 45
485.	AGU91624.1	L1	Human papillomavirus type 45
486.	AGU91618.1	L1	Human papillomavirus type 45
487.	AGU91612.1	L1	Human papillomavirus type 45
488.	AGU91606.1	L1	Human papillomavirus type 45
489.	AGU91600.1	L1	Human papillomavirus type 45
490.	AGU91594.1	L1	Human papillomavirus type 45
491.	AGU91588.1	L1	Human papillomavirus type 45
492.	ABP91503.1	L1	Human papillomavirus type 45
493.	ABP91595.1	L1	Human papillomavirus type 45

494.	ABP99867.1	L1	Fuman papillomavirus type 45
495.	ABP99879.1	L1	Fuman papillomavirus type 45
496.	ABP99871.1	L1	Fuman papillomavirus type 45
497.	ABP99863.1	L1	Fuman papillomavirus type 45
498.	ABP99855.1	L1	Fuman papillomavirus type 45
499.	ABP99847.1	L1	Fuman papillomavirus type 45
500.	ABP99839.1	L1	Fuman papillomavirus type 45
501.	ABP99831.1	L1	Fuman papillomavirus type 45
502.	ABP99823.1	L1	Fuman papillomavirus type 45
503.	ABP99815.1	L1	Fuman papillomavirus type 45
504.	ALV85695.1	major capsid protein L1	Human papillomavirus type 45
505.	ALV85683.1	major capsid protein L1	Human papillomavirus type 45
506.	ALV85681.1	major capsid protein L1	Human papillomavirus type 45
507.	ALV85689.1	major capsid protein L1	Human papillomavirus type 45
508.	ALV85687.1	major capsid protein L1	Human papillomavirus type 45
509.	ALV85685.1	major capsid protein L1	Human papillomavirus type 45
510.	ALV85683.1	major capsid protein L1	Human papillomavirus type 45
511.	ALV85681.1	major capsid protein L1	Human papillomavirus type 45
512.	ALV85679.1	major capsid protein L1	Human papillomavirus type 45
513.	ALV85677.1	major capsid protein L1	Human papillomavirus type 45
514.	ALV85675.1	major capsid protein L1	Human papillomavirus type 45
515.	ALV85673.1	major capsid protein L1	Human papillomavirus type 45
516.	ALV85671.1	major capsid protein L1	Human papillomavirus type 45
517.	ALV85669.1	major capsid protein L1	Human papillomavirus type 45
518.	ALV85667.1	major capsid protein L1	Human papillomavirus type 45
519.	ALV85665.1	major capsid protein L1	Human papillomavirus type 45
520.	ALV85663.1	major capsid protein L1	Human papillomavirus type 45
521.	ALV85661.1	major capsid protein L1	Human papillomavirus type 45
522.	ALV85659.1	major capsid protein L1	Human papillomavirus type 45
523.	ALV85657.1	major capsid protein L1	Human papillomavirus type 45
524.	ALV85655.1	major capsid protein L1	Human papillomavirus type 45
525.	ALV85653.1	major capsid protein L1	Human papillomavirus type 45
526.	ALV85651.1	major capsid protein L1	Human papillomavirus type 45
527.	ALV85649.1	major capsid protein L1	Human papillomavirus type 45
528.	ALV85647.1	major capsid protein L1	Human papillomavirus type 45
529.	ALV85645.1	major capsid protein L1	Human papillomavirus type 45
530.	ALV85643.1	major capsid protein L1	Human papillomavirus type 45
531.	ALV85641.1	major capsid protein L1	Human papillomavirus type 45



532.	ADV85639.1	major capsid protein L1 Human papillomavirus type 45
533.	ADV85637.1	major capsid protein L1 Human papillomavirus type 45
534.	ADV85635.1	major capsid protein L1 Human papillomavirus type 45
535.	ADV85633.1	major capsid protein L1 Human papillomavirus type 45
536.	ADV85631.1	major capsid protein L1 Human papillomavirus type 45
537.	ADV85629.1	major capsid protein L1 Human papillomavirus type 45
538.	ADV85627.1	major capsid protein L1 Human papillomavirus type 45
539.	ep 336741.1 VCL HPV45 RecName: Full Major capsid protein L1	
540.	ALT54761.1	L1 HPV 51
541.	ALT54761.1	L1 Human papillomavirus type 51
542.	AMK51256.1	L1 Human papillomavirus type 51
543.	ALT54789.1	L1 Human papillomavirus type 51
544.	ALT54782.1	L1 Human papillomavirus type 51
545.	ALT54775.1	L1 Human papillomavirus type 51
546.	ALT54768.1	L1 Human papillomavirus type 51
547.	ADB97253.1	major capsid protein L1 partial Human papillomavirus type 51
548.	ALJ333014.1	late protein L1 Human papillomavirus type 51
549.	ALJ333007.1	late protein L1 Human papillomavirus type 51
550.	ALJ333000.1	late protein L1 Human papillomavirus type 51
551.	ALJ332993.1	late protein L1 Human papillomavirus type 51
552.	ALJ332986.1	late protein L1 Human papillomavirus type 51
553.	ALJ332979.1	late protein L1 Human papillomavirus type 51
554.	ALJ332972.1	late protein L1 Human papillomavirus type 51
555.	ALJ332965.1	late protein L1 Human papillomavirus type 51
556.	ALJ332958.1	late protein L1 Human papillomavirus type 51
557.	ALJ332951.1	late protein L1 Human papillomavirus type 51
558.	ALJ332944.1	late protein L1 Human papillomavirus type 51
559.	ALJ332937.1	late protein L1 Human papillomavirus type 51
560.	ALJ332930.1	late protein L1 Human papillomavirus type 51
561.	ALJ332923.1	late protein L1 Human papillomavirus type 51
562.	ALJ332916.1	late protein L1 Human papillomavirus type 51
563.	ALJ332909.1	late protein L1 Human papillomavirus type 51
564.	ALJ332902.1	late protein L1 Human papillomavirus type 51
565.	ALJ332895.1	late protein L1 Human papillomavirus type 51
566.	ALJ332888.1	late protein L1 Human papillomavirus type 51
567.	ALJ332881.1	late protein L1 Human papillomavirus type 51
568.	ALJ332874.1	late protein L1 Human papillomavirus type 51
569.	ALJ332867.1	late protein L1 Human papillomavirus type 51

570.	AJS10606.1	major capsid protein L1	Human papillomavirus type 51
571.	AJS10604.1	major capsid protein L1	Human papillomavirus type 51
572.	AJS10602.1	major capsid protein L1	Human papillomavirus type 51
573.	AJS10600.1	major capsid protein L1	Human papillomavirus type 51
574.	AJS10598.1	major capsid protein L1	Human papillomavirus type 51
575.	AJS10596.1	major capsid protein L1	Human papillomavirus type 51
576.	AJS10594.1	major capsid protein L1	Human papillomavirus type 51
577.	AJS10592.1	major capsid protein L1	Human papillomavirus type 51
578.	AJS10590.1	major capsid protein L1	Human papillomavirus type 51
579.	AJS10588.1	major capsid protein L1	Human papillomavirus type 51
580.	AJS10586.1	major capsid protein L1	Human papillomavirus type 51
581.	AJS10584.1	major capsid protein L1	Human papillomavirus type 51
582.	AJS10582.1	major capsid protein L1	Human papillomavirus type 51
583.	AJS10580.1	major capsid protein L1	Human papillomavirus type 51
584.	AJS10578.1	major capsid protein L1	Human papillomavirus type 51
585.	AJS10576.1	major capsid protein L1	Human papillomavirus type 51
586.	AJS10574.1	major capsid protein L1	Human papillomavirus type 51
587.	AJS10572.1	major capsid protein L1	Human papillomavirus type 51
588.	AJS10570.1	major capsid protein L1	Human papillomavirus type 51
589.	AJS10568.1	major capsid protein L1	Human papillomavirus type 51
590.	AJS10566.1	major capsid protein L1	Human papillomavirus type 51
591.	AJS10564.1	major capsid protein L1	Human papillomavirus type 51
592.	AJS10562.1	major capsid protein L1	Human papillomavirus type 51
593.	AJS10560.1	major capsid protein L1	Human papillomavirus type 51
594.	AJS10558.1	major capsid protein L1	Human papillomavirus type 51
595.	AJS10556.1	major capsid protein L1	Human papillomavirus type 51
596.	AJS10554.1	major capsid protein L1	Human papillomavirus type 51
597.	AJS10552.1	major capsid protein L1	Human papillomavirus type 51
598.	AJS10550.1	major capsid protein L1	Human papillomavirus type 51
599.	AJS10548.1	major capsid protein L1	Human papillomavirus type 51
600.	AJS10546.1	major capsid protein L1	Human papillomavirus type 51
601.	AJS10544.1	major capsid protein L1	Human papillomavirus type 51
602.	AJS10542.1	major capsid protein L1	Human papillomavirus type 51
603.	AJS10540.1	major capsid protein L1	Human papillomavirus type 51
604.	ACV88631.1	capsid L1 protein	Human papillomavirus type 51
605.	ACX32362.1	L1	HPV 52
606.	ACX32362.1	L1	Human papillomavirus type 52
607.	APD44881.1	L1	Human papillomavirus type 52



607.	APQ44881.1	L1	Human papillomavirus type 52
608.	APQ44880.1	L1	Human papillomavirus type 52
609.	APQ44879.1	L1	Human papillomavirus type 52
610.	APQ44878.1	L1	Human papillomavirus type 52
611.	APQ44877.1	L1	Human papillomavirus type 52
612.	APQ44876.1	L1	Human papillomavirus type 52
613.	APQ44875.1	L1	Human papillomavirus type 52
614.	APQ44874.1	L1	Human papillomavirus type 52
615.	APQ44873.1	L1	Human papillomavirus type 52
616.	APQ44872.1	L1	Human papillomavirus type 52
617.	APQ44871.1	L1	Human papillomavirus type 52
618.	APQ44870.1	L1	Human papillomavirus type 52
619.	APQ44869.1	L1	Human papillomavirus type 52
620.	APQ44868.1	L1	Human papillomavirus type 52
621.	APQ44867.1	L1	Human papillomavirus type 52
622.	APQ44866.1	L1	Human papillomavirus type 52
623.	APQ44865.1	L1	Human papillomavirus type 52
624.	APQ44864.1	L1	Human papillomavirus type 52
625.	APQ44863.1	L1	Human papillomavirus type 52
626.	APQ44862.1	L1	Human papillomavirus type 52
627.	APQ44861.1	L1	Human papillomavirus type 52
628.	APQ44860.1	L1	Human papillomavirus type 52
629.	APQ44859.1	L1	Human papillomavirus type 52
630.	APQ44858.1	L1	Human papillomavirus type 52
631.	APQ44857.1	L1	Human papillomavirus type 52
632.	APQ44856.1	L1	Human papillomavirus type 52
633.	AAV57811.1	L1	partial Human papillomavirus type 52
634.	AFC35275.1	L1	Human papillomavirus type 52
635.	AFC35274.1	L1	Human papillomavirus type 52
636.	AFC35273.1	L1	Human papillomavirus type 52
637.	AFC35272.1	L1	Human papillomavirus type 52
638.	AFC35271.1	L1	Human papillomavirus type 52
639.	AFC35270.1	L1	Human papillomavirus type 52
640.	AFC35269.1	L1	Human papillomavirus type 52
641.	AFC35268.1	L1	Human papillomavirus type 52
642.	AFC35267.1	L1	Human papillomavirus type 52
643.	AFC35266.1	L1	Human papillomavirus type 52
644.	AFC35265.1	L1	Human papillomavirus type 52

645	AFC35264.1	L1	Humar papillomavirus type 52
646	AFC35263.1	L1	Humar papillomavirus type 52
647	AFC35262.1	L1	Humar papillomavirus type 52
648	AFC35261.1	L1	Humar papillomavirus type 52
649	AFC35260.1	L1	Humar papillomavirus type 52
650	AFC35259.1	L1	Humar papillomavirus type 52
651	AFC35258.1	L1	Humar papillomavirus type 52
652	AFC35257.1	L1	Humar papillomavirus type 52
653	AFC35256.1	L1	Humar papillomavirus type 52
654	AFC35255.1	L1	Humar papillomavirus type 52
655	ALTE4929.1	L1	Humar papillomavirus type 52
656	ALTE4921.1	L1	Humar papillomavirus type 52
657	ALTE4913.1	L1	Humar papillomavirus type 52
658	ALTE4905.1	L1	Humar papillomavirus type 52
659	ALTE4797.1	L1	Humar papillomavirus type 52
660	ABJE5796.1	major capsid proteir. L1	Humar papillomavirus type 52
661	ABJE5795.1	major capsid proteir. L1	Humar papillomavirus type 52
662	ABJE5794.1	major capsid proteir. L1	Humar papillomavirus type 52
663	ABJE5793.1	major capsid proteir. L1	Humar papillomavirus type 52
664	ABJE5792.1	major capsid proteir. L1	Humar papillomavirus type 52
665	ABJE5791.1	major capsid proteir. L1	Humar papillomavirus type 52
666	ABJE5790.1	major capsid proteir. L1	Humar papillomavirus type 52
667	ABJE5789.1	major capsid proteir. L1	Humar papillomavirus type 52
668	ABJE5788.1	major capsid proteir. L1	Humar papillomavirus type 52
669	ABJE5787.1	major capsid proteir. L1	Humar papillomavirus type 52
670	ABJE5786.1	major capsid proteir. L1	Humar papillomavirus type 52
671	ABJE5785.1	major capsid proteir. L1	Humar papillomavirus type 52
672	ABJE5784.1	major capsid proteir. L1	Humar papillomavirus type 52
673	ABJE5783.1	major capsid proteir. L1	Humar papillomavirus type 52
674	ABJE5782.1	major capsid proteir. L1	Humar papillomavirus type 52
675	ABJE5781.1	major capsid proteir. L1	Humar papillomavirus type 52
676	ABJE5780.1	major capsid proteir. L1	Humar papillomavirus type 52
677	ABJE5779.1	major capsid proteir. L1	Humar papillomavirus type 52
678	ABJE5778.1	major capsid proteir. L1	Humar papillomavirus type 52
679	ABJE5777.1	major capsid proteir. L1	Humar papillomavirus type 52
680	ABJE5776.1	major capsid proteir. L1	Humar papillomavirus type 52
681	ABJE5775.1	major capsid proteir. L1	Humar papillomavirus type 52
682	ABJE5774.1	major capsid proteir. L1	Humar papillomavirus type 52



693.	ABC55774.1	major capsid protein L1	Human papillomavirus type 52
694.	ABC55773.1	major capsid protein L1	Human papillomavirus type 52
695.	ABC55772.1	major capsid protein L1	Human papillomavirus type 52
696.	ABC55771.1	major capsid protein L1	Human papillomavirus type 52
697.	ABC55770.1	major capsid protein L1	Human papillomavirus type 52
698.	ABC55769.1	major capsid protein L1	Human papillomavirus type 52
699.	ABC55768.1	major capsid protein L1	Human papillomavirus type 52
690.	ABC55767.1	major capsid protein L1	Human papillomavirus type 52
691.	ABC55766.1	major capsid protein L1	Human papillomavirus type 52
692.	ALI54892.1	L1	HPV 56
693.	ALI54892.1	L1	Humar. papillomavirus type 56
694.	ALI54885.1	L1	Humar. papillomavirus type 56
695.	ALI54879.1	L1	Humar. papillomavirus type 56
696.	ALI54871.1	L1	Humar. papillomavirus type 56
697.	ALI54864.1	L1	Humar. papillomavirus type 56
698.	sp P36743.1	VL1 HPV56	RecName: Full Major capsid protein L1
699.	AMY16525.1	L1	HPV 58
700.	ACX32376.1	L1	Humar. papillomavirus type 58
701.	ACL12325.1	L1	Humar. papillomavirus type 58
702.	ALI54900.1	L1	Humar. papillomavirus type 58
703.	AGQ21871.1	L1	Humar. papillomavirus type 58
704.	AGQ21863.1	L1	Humar. papillomavirus type 58
705.	AGQ21866.1	L1	Humar. papillomavirus type 58
706.	A7S33413.1	L1	Humar. papillomavirus type 58
707.	A7S33412.1	L1	Humar. papillomavirus type 58
708.	A7S33411.1	L1	Humar. papillomavirus type 58
709.	A7S33410.1	L1	Humar. papillomavirus type 58
710.	A7S33409.1	L1	Humar. papillomavirus type 58
711.	A7S33408.1	L1	Humar. papillomavirus type 58
712.	A7S33407.1	L1	Humar. papillomavirus type 58
713.	A7S33406.1	L1	Humar. papillomavirus type 58
714.	A7S33405.1	L1	Humar. papillomavirus type 58
715.	A7S33404.1	L1	Humar. papillomavirus type 58
716.	A7S33403.1	L1	Humar. papillomavirus type 58
717.	A7S33402.1	L1	Humar. papillomavirus type 58
718.	A7S33400.1	L1	Humar. papillomavirus type 58
719.	A7S33401.1	L1	Humar. papillomavirus type 58
720.	A7S33399.1	L1	Humar. papillomavirus type 58

721.	AFS33396.1	L1 Human papillomavirus type 58
722.	AFS33397.1	L1 Human papillomavirus type 58
723.	AFS33398.1	L1 Human papillomavirus type 58
724.	AFS33399.1	L1 Human papillomavirus type 58
725.	AFS33394.1	L1 Human papillomavirus type 58
726.	AFS33393.1	L1 Human papillomavirus type 58
727.	BAN63337.1	L1 protein Human papillomavirus type 58
728.	BAN63329.1	L1 protein Human papillomavirus type 58
729.	BAN63321.1	L1 protein Human papillomavirus type 58
730.	BAN63313.1	L1 protein Human papillomavirus type 58
731.	BAN63305.1	L1 protein Human papillomavirus type 58
732.	AEI61613.1	late protein L1 Human papillomavirus type 58
733.	AEI61605.1	late protein L1 Human papillomavirus type 58
734.	AEI61797.1	late protein L1 Human papillomavirus type 58
735.	AEI61789.1	late protein L1 Human papillomavirus type 58
736.	AEI61781.1	late protein L1 Human papillomavirus type 58
737.	AEI61773.1	late protein L1 Human papillomavirus type 58
738.	AEI61765.1	late protein L1 Human papillomavirus type 58
739.	AEI61757.1	late protein L1 Human papillomavirus type 58
740.	AEI61749.1	late protein L1 Human papillomavirus type 58
741.	AEI61741.1	late protein L1 Human papillomavirus type 58
742.	AEI61733.1	late protein L1 Human papillomavirus type 58
743.	AEI61725.1	late protein L1 Human papillomavirus type 58
744.	AEI61717.1	late protein L1 Human papillomavirus type 58
745.	AEI61709.1	late protein L1 Human papillomavirus type 58
746.	AEI61701.1	late protein L1 Human papillomavirus type 58
747.	AEI61693.1	late protein L1 Human papillomavirus type 58
748.	AEI61685.1	late protein L1 Human papillomavirus type 58
749.	AEI61677.1	late protein L1 Human papillomavirus type 58
750.	AEI61669.1	late protein L1 Human papillomavirus type 58
751.	AEI61661.1	late protein L1 Human papillomavirus type 58
752.	AEI61653.1	late protein L1 Human papillomavirus type 58
753.	AEI61645.1	late protein L1 Human papillomavirus type 58
754.	AEI61637.1	late protein L1 Human papillomavirus type 58
755.	AEI61629.1	late protein L1 Human papillomavirus type 58
756.	AEI61621.1	late protein L1 Human papillomavirus type 58
757.	AEI61613.1	late protein L1 Human papillomavirus type 58
758.	sc P26935.1 VL1 HPV58	RecName: Full Major capsid protein L1



759.	ADK78688.1	major capsid protein	Human papillomavirus type 58
760.	ADK78687.1	major capsid protein	Human papillomavirus type 58
761.	ADK78686.1	major capsid protein	Human papillomavirus type 58
762.	ADK78685.1	major capsid protein	Human papillomavirus type 58
763.	ADK78684.1	major capsid protein	Human papillomavirus type 58
764.	ADK78683.1	major capsid protein	Human papillomavirus type 58
765.	ADK78682.1	major capsid protein	Human papillomavirus type 58
766.	ADK78681.1	major capsid protein	Human papillomavirus type 58
767.	ADK78680.1	major capsid protein	Human papillomavirus type 58
768.	ADK78679.1	major capsid protein	Human papillomavirus type 58
769.	ADK78678.1	major capsid protein	Human papillomavirus type 58
770.	ADK78677.1	major capsid protein	Human papillomavirus type 58
771.	ADK78676.1	major capsid protein	Human papillomavirus type 58
772.	ADK78675.1	major capsid protein	Human papillomavirus type 58
773.	ADK78674.1	major capsid protein	Human papillomavirus type 58
774.	ADK78673.1	major capsid protein	Human papillomavirus type 58
775.	ADK78672.1	major capsid protein	Human papillomavirus type 58
776.	ADK78671.1	major capsid protein	Human papillomavirus type 58
777.	ADK78670.1	major capsid protein	Human papillomavirus type 58
778.	ADK78669.1	major capsid protein	Human papillomavirus type 58
779.	ADK78668.1	major capsid protein	Human papillomavirus type 58
780.	ADK78667.1	major capsid protein	Human papillomavirus type 58
781.	ADK78666.1	major capsid protein	Human papillomavirus type 58
782.	ADK78665.1	major capsid protein	Human papillomavirus type 58
783.	ADK78664.1	major capsid protein	Human papillomavirus type 58
784.	ADK78663.1	major capsid protein	Human papillomavirus type 58
785.	ADK78662.1	major capsid protein	Human papillomavirus type 58
786.	ADK78661.1	major capsid protein	Human papillomavirus type 58
787.	ADK78660.1	major capsid protein	Human papillomavirus type 58
788.	ADK78659.1	major capsid protein	Human papillomavirus type 58
789.	ADK78658.1	major capsid protein	Human papillomavirus type 58
790.	ADK78657.1	major capsid protein	Human papillomavirus type 58
791.	ADK78656.1	major capsid protein	Human papillomavirus type 58
792.	ADK78655.1	major capsid protein	Human papillomavirus type 58
793.	ADK78654.1	major capsid protein	Human papillomavirus type 58
794.	ADK78653.1	major capsid protein	Human papillomavirus type 58
795.	ADK78652.1	major capsid protein	Human papillomavirus type 58
796.	ADK78651.1	major capsid protein	Human papillomavirus type 58

797.	ADK78650.1	major capsid protein	Human papillomavirus type 58
798.	ADK78649.1	major capsid protein	Human papillomavirus type 58
799.	ADK78648.1	major capsid protein	Human papillomavirus type 58
800.	ADK78647.1	major capsid protein	Human papillomavirus type 58
801.	ADK78646.1	major capsid protein	Human papillomavirus type 58
802.	ADK78645.1	major capsid protein	Human papillomavirus type 58
803.	ADK78644.1	major capsid protein	Human papillomavirus type 58
804.	ADK78643.1	major capsid protein	Human papillomavirus type 58
805.	ADK78642.1	major capsid protein	Human papillomavirus type 58
806.	ADK78641.1	major capsid protein	Human papillomavirus type 58
807.	ADK78640.1	major capsid protein	Human papillomavirus type 58
808.	ADK78639.1	major capsid protein	Human papillomavirus type 58
809.	ADK78638.1	major capsid protein	Human papillomavirus type 58
810.	ADK78637.1	major capsid protein	Human papillomavirus type 58
811.	ADK78636.1	major capsid protein	Human papillomavirus type 58
812.	ADK78635.1	major capsid protein	Human papillomavirus type 58
813.	ADK78634.1	major capsid protein	Human papillomavirus type 58
814.	ADK78633.1	major capsid protein	Human papillomavirus type 58
815.	ADK78632.1	major capsid protein	Human papillomavirus type 58
816.	ADK78631.1	major capsid protein	Human papillomavirus type 58
817.	ADK78630.1	major capsid protein	Human papillomavirus type 58
818.	ADK78629.1	major capsid protein	Human papillomavirus type 58
819.	ADK78628.1	major capsid protein	Human papillomavirus type 58
820.	ADK78627.1	major capsid protein	Human papillomavirus type 58
821.	ADK78626.1	major capsid protein	Human papillomavirus type 58
822.	ADK78625.1	major capsid protein	Human papillomavirus type 58
823.	ADK78624.1	major capsid protein	Human papillomavirus type 58
824.	ADK78623.1	major capsid protein	Human papillomavirus type 58
825.	ADK78622.1	major capsid protein	Human papillomavirus type 58
826.	ADK78621.1	major capsid protein	Human papillomavirus type 58
827.	ADK78620.1	major capsid protein	Human papillomavirus type 58
828.	ADK78619.1	major capsid protein	Human papillomavirus type 58
829.	ACL12341.1 L1	HPV 59	
830.	AGU90696.1	L1	Human papillomavirus type 59
831.	AGU90688.1	L1	Human papillomavirus type 59
832.	AGU90680.1	L1	Human papillomavirus type 59
833.	AGU90672.1	L1	Human papillomavirus type 59
834.	AGU90656.1	L1	Human papillomavirus type 59



835	AGU90564	1	L1	Human papillomavirus type 59
836	AC112341	1	L1	Human papillomavirus type 59
837	ALT54916	1	L1	Human papillomavirus type 59
838	ALT54908	1	L1	Human papillomavirus type 59
839	AEF23038	1	major capsid protein	Human papillomavirus type 59
840	AEF23037	1	major capsid protein	Human papillomavirus type 59
841	AC112358	1	L1	HPV 68
842	ACX32334	1	L1	Human papillomavirus type 68
843	AGU90815	1	L1	Human papillomavirus type 68
844	AGU90808	1	L1	Human papillomavirus type 68
845	AGU90801	1	L1	Human papillomavirus type 68
846	AGU90794	1	L1	Human papillomavirus type 68
847	AGU90787	1	L1	Human papillomavirus type 68
848	AGU90780	1	L1	Human papillomavirus type 68
849	AGU90773	1	L1	Human papillomavirus type 68
850	AGU90766	1	L1	Human papillomavirus type 68
851	AGU90759	1	L1	Human papillomavirus type 68
852	AGU90752	1	L1	Human papillomavirus type 68
853	AGU90745	1	L1	Human papillomavirus type 68
854	AGU90738	1	L1	Human papillomavirus type 68
855	AGU90731	1	L1	Human papillomavirus type 68
856	AGU90724	1	L1	Human papillomavirus type 68
857	AGU90717	1	L1	Human papillomavirus type 68
858	AGU90710	1	L1	Human papillomavirus type 68
859	AGU90703	1	L1	Human papillomavirus type 68
860	AC112358	1	L1	Human papillomavirus type 68
861	ALT55001	1	L1	Human papillomavirus type 68
862	ALT54993	1	L1	Human papillomavirus type 68
863	ALT54985	1	L1	Human papillomavirus type 68
864	CAA47534	1	major capsid protein	Human papillomavirus type 68
865	sp P54669.1	VL1	EPV68	RecName: Full Major capsid protein L1
866	CBY85030	1	L1	protein Human papillomavirus type 68b
867	CBY85034	1	L1	protein Human papillomavirus type 68b
868	CBY85074	1	L1	protein Human papillomavirus type 68b
869	AA239498	1	L1	protein Human papillomavirus type 68a

## Lampiran 2. Sekuens *conserve* hasil *alignment* 2D

173-mer

'WVYPPVVTYRTIYARLGOPYPKVSQYRVFLPDPNKFPRLVWC  
GEGRGQPLGSGHPNDDERDKQTQLCGCPGEHWGCCPPLD  
GMDTGGMFLQKVPDICKYPDYMYGFLREQFRHNGGPGPSGSS  
QFNKPYWAQGNNGICWNFTVDTTTRSTNYRHEELQFFQLCTLM  
YHLWP'

## Lampiran 3. Sekuens hasil *protein modeling*

148-mer

'PKVSQYRVFLPDPNKFPRLVWCGEGRGQPLGSGHPNDDER  
DKQTQLCGCPGEHWGCCPPLDGDMDTGGMFLQKVPDICK  
YPDYMYGFLREQFRHNGGPGPSGSSQFNKPYWAQGNNGICW  
NFTVDTTTRSTNYRHEELQFFQLCTL'



#### Lampiran 4. Skor prediksi epitop sel B dengan metode BepiPred

##### Panjang peptida : 22-mer

<i>Position</i>	<i>Residu</i>	<i>Score</i>	<i>Assignment</i>
25	<b>E</b>	0.553	E
26	<b>G</b>	0.994	E
27	<b>R</b>	1.262	E
28	<b>G</b>	1.547	E
29	<b>Q</b>	1.595	E
30	<b>P</b>	1.676	E
31	<b>L</b>	1.735	E
32	<b>G</b>	1.743	E
33	<b>G</b>	1.657	E
34	<b>S</b>	1.763	E
35	<b>G</b>	2.001	E
36	<b>H</b>	2.407	E
37	<b>P</b>	2.412	E
38	<b>N</b>	2.532	E
39	<b>D</b>	2.44	E
40	<b>D</b>	2.409	E
41	<b>E</b>	2.382	E
42	<b>D</b>	2.363	E
43	<b>R</b>	2.147	E
44	<b>D</b>	1.765	E
45	<b>K</b>	1.158	E
46	<b>Q</b>	0.765	E

### Panjang peptida: 23-mer

<i>Position</i>	<i>Residu</i>	<i>Score</i>	<i>Assignment</i>
97	<b>R</b>	0.715	E
98	<b>H</b>	1.085	E
99	<b>N</b>	1.434	E
100	<b>G</b>	1.7	E
101	<b>G</b>	2.286	E
102	<b>P</b>	2.573	E
103	<b>G</b>	2.8	E
104	<b>P</b>	2.779	E
105	<b>S</b>	2.622	E
106	<b>G</b>	2.09	E
107	<b>S</b>	1.947	E
108	<b>S</b>	1.69	E
109	<b>Q</b>	1.489	E
110	<b>F</b>	1.192	E
111	<b>N</b>	0.783	E
112	<b>K</b>	0.598	E
113	<b>P</b>	0.619	E
114	<b>Y</b>	0.699	E
115	<b>W</b>	1.152	E
116	<b>A</b>	1.125	E
117	<b>Q</b>	1.017	E
118	<b>G</b>	0.637	E
119	<b>N</b>	0.537	E



## Lampiran 5. Skor prediksi antigenisitas

22-mer		23-mer	
<i>Peptide</i>	<i>Score</i>	<i>Peptide</i>	<i>Score</i>
EGRGQPL	0.972	RHNGGPG	0.92
GRGQPLG	0.975	HNGGPGP	0.947
RGQPLGG	0.975	NGGPGPS	0.934
GQPLGGS	0.995	GGPGPSG	0.948
QPLGGSG	0.995	GPGPSGS	0.968
PLGGSGH	1.008	PGPSGSS	0.987
LGGSGHP	1.008	GPSGSSQ	0.98
GGSGHPN	0.94	PSGSSQF	1.011
GSGHPND	0.939	SGSSQFN	0.97
SGHPNDD	0.938	GSSQFNK	0.959
GHPNDDE	0.915	SSQFNKP	0.986
HPNDDDED	0.913	SQFNKPY	1.007
PNDDEDR	0.88	QFNKPYW	0.99
NDDEDRD	0.852	FNKPYWA	0.997
DDEDRDK	0.874	NKPYWAQ	0.986
DEDRDKQ	0.895	KPYWAQG	1
		PYWAQGN	0.978

Rata-rata: 0,942

Rata-rata: 0,975







