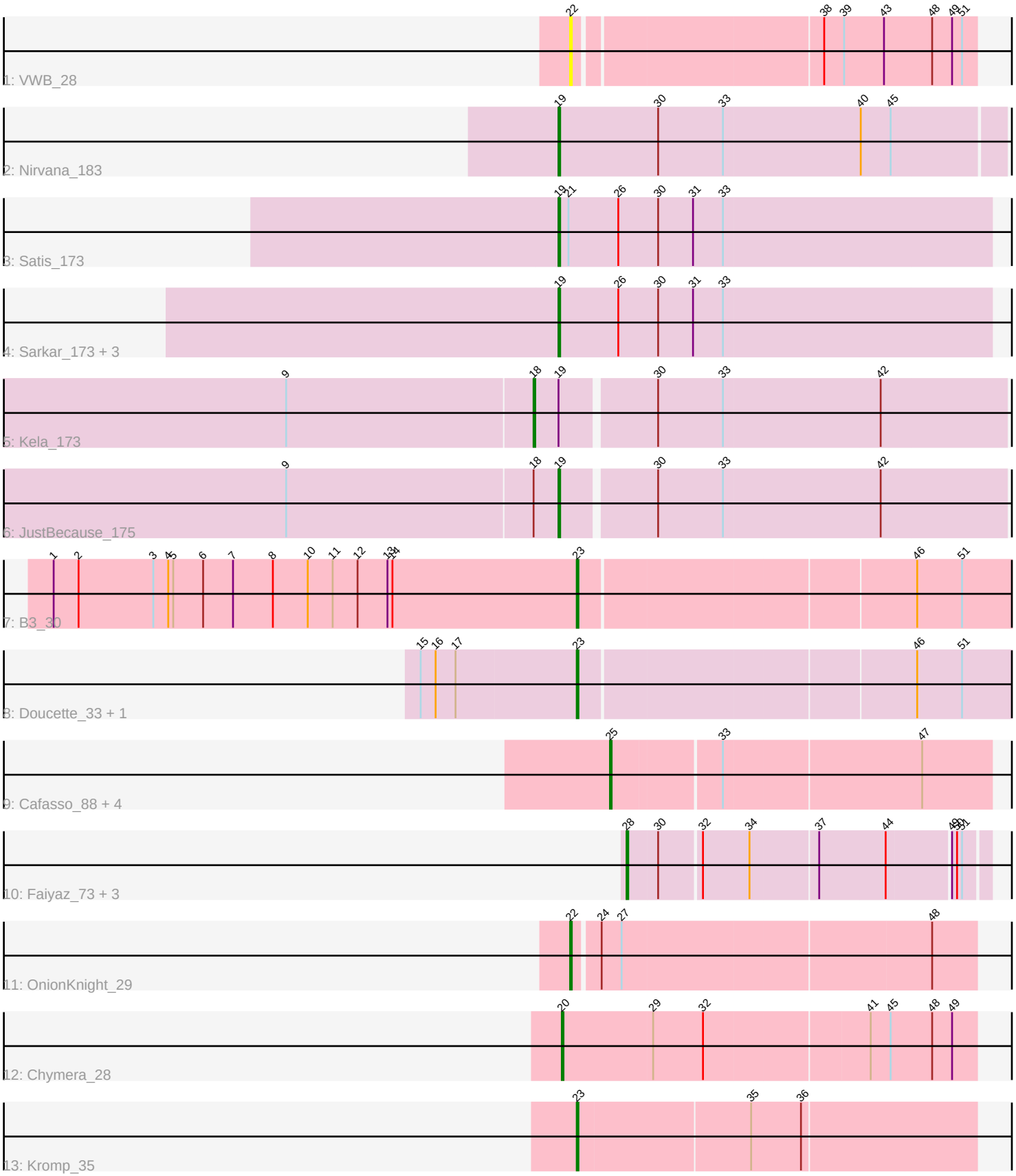
Pham 347991


1: VWB_28
22
38
39
43
48
49
51
2: Nirvana_183
19
30
33
40
45
3: Satis_173
19
21
26
30
31
33
4: Sarkar_173 + 3
19
26
30
31
33
5: Kela_173
9
18
19
30
33
42
6: JustBecause_175
9
18
19
30
33
42
7: B3_30
1
2
3
4
5
6
7
8
10
11
12
13
14
23
46
51
8: Doucette_33 + 1
15
16
17
23
46
51
9: Cafasso_88 + 4
25
33
47
10: Faiyaz_73 + 3
28
30
32
34
37
44
49
50
51
11: OnionKnight_29
22
24
27
48
12: Chymera_28
20
29
32
41
45
48
49
13: Kromp_35
23
35
36

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347991 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347991 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : VWB_28
• Track 2 : Nirvana_183
• Track 3 : Satis_173
• Track 4 : Sarkar_173, Quantum_172, EhyElimayoE_174, Kradal_173
• Track 5 : Kela_173
• Track 6 : JustBecause_175
• Track 7 : B3_30
• Track 8 : Doucette_33, B22_31
• Track 9 : Cafasso_88, ObLaDi_88, Morgana_95, Aleemily_87, ModicumRichard_88
• Track 10 : Faiyaz_73, Typha_72, AuntGwenStacy_73, Hilltopfarm_72
• Track 11 : OnionKnight_29
• Track 12 : Chymera_28
• Track 13 : Kromp_35

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 19, it was called in 7 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_174, JustBecause_175, Kradal_173, Nirvana_183, Quantum_172, Sarkar_173, Satis_173,

Genes that have the "Most Annotated" start but do not call it:
• Kela_173,

Genes that do not have the "Most Annotated" start:
• Aleemily_87, AuntGwenStacy_73, B22_31, B3_30, Cafasso_88, Chymera_28, Doucette_33, Faiyaz_73, Hilltopfarm_72, Kromp_35, ModicumRichard_88, Morgana_95, ObLaDi_88, OnionKnight_29, Typha_72, VWB_28,

Summary by start number:

Start 18:

• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Kela_173 (BM),

Start 19:
• Found in 8 of 24 (33.3%) of genes in pham
• Manual Annotations of this start: 7 of 23
• Called 87.5% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_174 (BM), JustBecause_175 (BM), Kradal_173 (BM), Nirvana_183 (BM), Quantum_172 (BM), Sarkar_173 (BM), Satis_173 (BM),

Start 20:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chymera_28 (singleton),

Start 22:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OnionKnight_29 (singleton), VWB_28 (BA),

Start 23:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: B22_31 (BW), B3_30 (BV), Doucette_33 (BW), Kromp_35 (singleton),

Start 25:
• Found in 5 of 24 (20.8%) of genes in pham
• Manual Annotations of this start: 5 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_87 (DZ), Cafasso_88 (DZ), ModicumRichard_88 (DZ), Morgana_95 (DZ), ObLaDi_88 (DZ),

Start 28:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_73 (Y), Faiyaz_73 (Y), Hilltopfarm_72 (Y), Typha_72 (Y),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, BA, BM, BV, BW, DZ, Y,

Info for manual annotations of cluster BM:

•Start number 18 was manually annotated 1 time for cluster BM.
•Start number 19 was manually annotated 7 times for cluster BM.

Info for manual annotations of cluster BV:
•Start number 23 was manually annotated 1 time for cluster BV.

Info for manual annotations of cluster BW:
•Start number 23 was manually annotated 2 times for cluster BW.

Info for manual annotations of cluster DZ:
•Start number 25 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster Y:
•Start number 28 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: Aleemily_87 Start: 52753, Stop: 52971, Start Num: 25
Candidate Starts for Aleemily_87:
(Start: 25 @52753 has 5 MA's), (33, 52816), (47, 52930),

Gene: AuntGwenStacy_73 Start: 49703, Stop: 49906, Start Num: 28
Candidate Starts for AuntGwenStacy_73:
(Start: 28 @49703 has 4 MA's), (30, 49721), (32, 49745), (34, 49772), (37, 49811), (44, 49850), (49, 49886), (50, 49889), (51, 49892),

Gene: B22_31 Start: 23303, Stop: 23049, Start Num: 23
Candidate Starts for B22_31:
(15, 23396), (16, 23387), (17, 23375), (Start: 23 @23303 has 4 MA's), (46, 23108), (51, 23081),

Gene: B3_30 Start: 23432, Stop: 23178, Start Num: 23
Candidate Starts for B3_30:
(1, 23747), (2, 23732), (3, 23687), (4, 23678), (5, 23675), (6, 23657), (7, 23639), (8, 23615), (10, 23594), (11, 23579), (12, 23564), (13, 23546), (14, 23543), (Start: 23 @23432 has 4 MA's), (46, 23237), (51, 23210),

Gene: Cafasso_88 Start: 52905, Stop: 53123, Start Num: 25
Candidate Starts for Cafasso_88:
(Start: 25 @52905 has 5 MA's), (33, 52968), (47, 53082),

Gene: Chymera_28 Start: 21061, Stop: 20819, Start Num: 20
Candidate Starts for Chymera_28:
(Start: 20 @21061 has 1 MA's), (29, 21007), (32, 20977), (41, 20881), (45, 20869), (48, 20845), (49, 20833),

Gene: Doucette_33 Start: 24717, Stop: 24463, Start Num: 23
Candidate Starts for Doucette_33:
(15, 24810), (16, 24801), (17, 24789), (Start: 23 @24717 has 4 MA's), (46, 24522), (51, 24495),

Gene: EhyElimayoE_174 Start: 112216, Stop: 111959, Start Num: 19
Candidate Starts for EhyElimayoE_174:

(Start: 19 @112216 has 7 MA's), (26, 112180), (30, 112156), (31, 112135), (33, 112117),

Gene: Faiyaz_73 Start: 49709, Stop: 49912, Start Num: 28
Candidate Starts for Faiyaz_73:
(Start: 28 @49709 has 4 MA's), (30, 49727), (32, 49751), (34, 49778), (37, 49817), (44, 49856), (49, 49892), (50, 49895), (51, 49898),

Gene: Hilltopfarm_72 Start: 49409, Stop: 49612, Start Num: 28
Candidate Starts for Hilltopfarm_72:
(Start: 28 @49409 has 4 MA's), (30, 49427), (32, 49451), (34, 49478), (37, 49517), (44, 49556), (49, 49592), (50, 49595), (51, 49598),

Gene: JustBecause_175 Start: 109723, Stop: 109463, Start Num: 19
Candidate Starts for JustBecause_175:
(9, 109885), (Start: 18 @109738 has 1 MA's), (Start: 19 @109723 has 7 MA's), (30, 109669), (33, 109630), (42, 109537),

Gene: Kela_173 Start: 109612, Stop: 109337, Start Num: 18
Candidate Starts for Kela_173:
(9, 109759), (Start: 18 @109612 has 1 MA's), (Start: 19 @109597 has 7 MA's), (30, 109543), (33, 109504), (42, 109411),

Gene: Kradal_173 Start: 112213, Stop: 111956, Start Num: 19
Candidate Starts for Kradal_173:
(Start: 19 @112213 has 7 MA's), (26, 112177), (30, 112153), (31, 112132), (33, 112114),

Gene: Kromp_35 Start: 27947, Stop: 27714, Start Num: 23
Candidate Starts for Kromp_35:
(Start: 23 @27947 has 4 MA's), (35, 27845), (36, 27815),

Gene: ModicumRichard_88 Start: 52973, Stop: 53191, Start Num: 25
Candidate Starts for ModicumRichard_88:
(Start: 25 @52973 has 5 MA's), (33, 53036), (47, 53150),

Gene: Morgana_95 Start: 55142, Stop: 55360, Start Num: 25
Candidate Starts for Morgana_95:
(Start: 25 @55142 has 5 MA's), (33, 55205), (47, 55319),

Gene: Nirvana_183 Start: 120173, Stop: 119910, Start Num: 19
Candidate Starts for Nirvana_183:
(Start: 19 @120173 has 7 MA's), (30, 120113), (33, 120074), (40, 119993), (45, 119975),

Gene: ObLaDi_88 Start: 52999, Stop: 53217, Start Num: 25
Candidate Starts for ObLaDi_88:
(Start: 25 @52999 has 5 MA's), (33, 53062), (47, 53176),

Gene: OnionKnight_29 Start: 22224, Stop: 21991, Start Num: 22
Candidate Starts for OnionKnight_29:
(Start: 22 @22224 has 1 MA's), (24, 22209), (27, 22197), (48, 22017),

Gene: Quantum_172 Start: 112213, Stop: 111956, Start Num: 19
Candidate Starts for Quantum_172:
(Start: 19 @112213 has 7 MA's), (26, 112177), (30, 112153), (31, 112132), (33, 112114),

Gene: Sarkar_173 Start: 112213, Stop: 111956, Start Num: 19
Candidate Starts for Sarkar_173:
(Start: 19 @112213 has 7 MA's), (26, 112177), (30, 112153), (31, 112132), (33, 112114),

Gene: Satis_173 Start: 112209, Stop: 111952, Start Num: 19
Candidate Starts for Satis_173:
(Start: 19 @112209 has 7 MA's), (21, 112203), (26, 112173), (30, 112149), (31, 112128), (33, 112110),

Gene: Typha_72 Start: 49703, Stop: 49906, Start Num: 28
Candidate Starts for Typha_72:
(Start: 28 @49703 has 4 MA's), (30, 49721), (32, 49745), (34, 49772), (37, 49811), (44, 49850), (49, 49886), (50, 49889), (51, 49892),

Gene: VWB_28 Start: 25376, Stop: 25146, Start Num: 22
Candidate Starts for VWB_28:
(Start: 22 @25376 has 1 MA's), (38, 25235), (39, 25223), (43, 25199), (48, 25172), (49, 25160), (51, 25154),