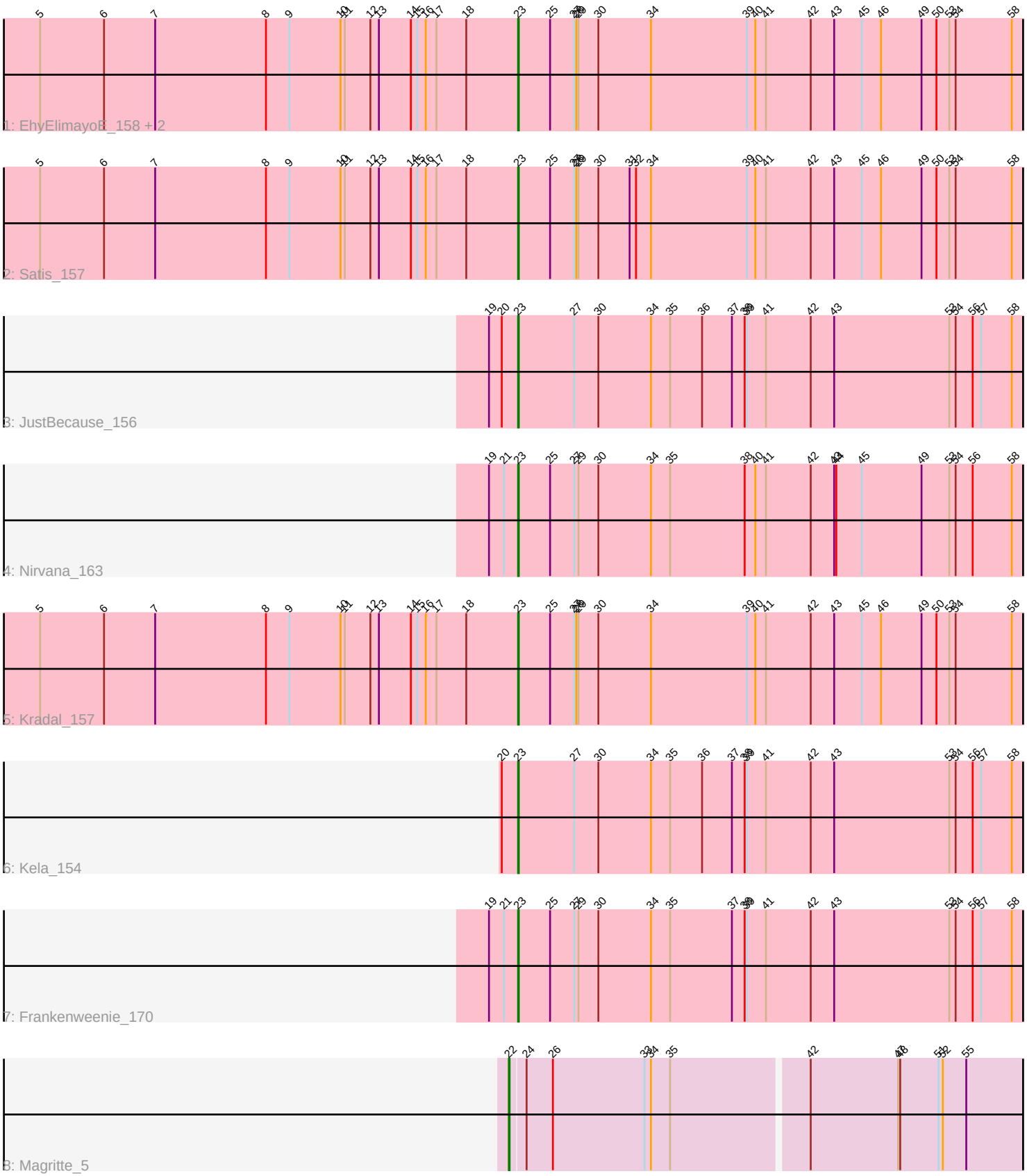
Zoomed Pham 348259



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 348259 Report

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

Pham number 348259 has 10 members, 0 are drafts.

Phages represented in each track:
• Track 1 : EhyElimayoE_158, Quantum_156, Sarkar_157
• Track 2 : Satis_157
• Track 3 : JustBecause_156
• Track 4 : Nirvana_163
• Track 5 : Kradal_157
• Track 6 : Kela_154
• Track 7 : Frankenweenie_170
• Track 8 : Magritte_5

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

The start number called the most often in the published annotations is 23, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• EhyElimayoE_158, Frankenweenie_170, JustBecause_156, Kela_154, Kradal_157, Nirvana_163, Quantum_156, Sarkar_157, Satis_157,

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

Genes that do not have the "Most Annotated" start:
• Magritte_5,

Summary by start number:

Start 22:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Magritte_5 (singleton),

Start 23:
• Found in 9 of 10 (90.0%) of genes in pham

• Manual Annotations of this start: 9 of 10
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_158 (BM), Frankenweenie_170 (BM), JustBecause_156 (BM), Kela_154 (BM), Kradal_157 (BM), Nirvana_163 (BM), Quantum_156 (BM), Sarkar_157 (BM), Satis_157 (BM),

Summary by clusters:

There are 2 clusters represented in this pham: BM, singleton,

Info for manual annotations of cluster BM:
•Start number 23 was manually annotated 9 times for cluster BM.

Gene Information:

Gene: EhyElimayoE_158 Start: 103828, Stop: 104778, Start Num: 23
Candidate Starts for EhyElimayoE_158:
(1, 102457), (2, 102517), (3, 102652), (4, 102835), (5, 103156), (6, 103246), (7, 103318), (8, 103474), (9, 103507), (10, 103579), (11, 103585), (12, 103621), (13, 103633), (14, 103678), (15, 103687), (16, 103699), (17, 103714), (18, 103756), (Start: 23 @103828 has 9 MA's), (25, 103873), (27, 103906), (28, 103909), (29, 103912), (30, 103939), (34, 104011), (39, 104146), (40, 104158), (41, 104173), (42, 104236), (43, 104269), (45, 104308), (46, 104335), (49, 104392), (50, 104413), (53, 104431), (54, 104440), (58, 104518), (60, 104554), (61, 104614), (63, 104668),

Gene: Frankenweenie_170 Start: 111985, Stop: 112935, Start Num: 23
Candidate Starts for Frankenweenie_170:
(19, 111946), (21, 111967), (Start: 23 @111985 has 9 MA's), (25, 112030), (27, 112063), (29, 112069), (30, 112096), (34, 112168), (35, 112195), (37, 112282), (38, 112300), (39, 112303), (41, 112330), (42, 112393), (43, 112426), (53, 112588), (54, 112597), (56, 112621), (57, 112633), (58, 112675), (59, 112699), (60, 112711), (61, 112771),

Gene: JustBecause_156 Start: 100970, Stop: 101920, Start Num: 23
Candidate Starts for JustBecause_156:
(19, 100931), (20, 100949), (Start: 23 @100970 has 9 MA's), (27, 101048), (30, 101081), (34, 101153), (35, 101180), (36, 101225), (37, 101267), (38, 101285), (39, 101288), (41, 101315), (42, 101378), (43, 101411), (53, 101573), (54, 101582), (56, 101606), (57, 101618), (58, 101660), (59, 101684), (60, 101696), (61, 101756),

Gene: Kela_154 Start: 100844, Stop: 101794, Start Num: 23
Candidate Starts for Kela_154:
(20, 100823), (Start: 23 @100844 has 9 MA's), (27, 100922), (30, 100955), (34, 101027), (35, 101054), (36, 101099), (37, 101141), (38, 101159), (39, 101162), (41, 101189), (42, 101252), (43, 101285), (53, 101447), (54, 101456), (56, 101480), (57, 101492), (58, 101534), (59, 101558), (60, 101570), (61, 101630),

Gene: Kradal_157 Start: 103825, Stop: 104775, Start Num: 23
Candidate Starts for Kradal_157:
(5, 103153), (6, 103243), (7, 103315), (8, 103471), (9, 103504), (10, 103576), (11, 103582), (12, 103618), (13, 103630), (14, 103675), (15, 103684), (16, 103696), (17, 103711), (18, 103753), (Start: 23 @103825 has 9 MA's), (25, 103870), (27, 103903), (28, 103906), (29, 103909), (30, 103936), (34, 104008), (39, 104143), (40, 104155), (41, 104170), (42, 104233), (43, 104266), (45, 104305), (46,

104332), (49, 104389), (50, 104410), (53, 104428), (54, 104437), (58, 104515), (60, 104551), (61, 104611), (63, 104665),

Gene: Magritte_5 Start: 2393, Stop: 3307, Start Num: 22
Candidate Starts for Magritte_5:
(Start: 22 @2393 has 1 MA's), (24, 2414), (26, 2450), (33, 2579), (34, 2588), (35, 2615), (42, 2801), (47, 2924), (48, 2927), (51, 2981), (52, 2987), (55, 3020), (62, 3191),

Gene: Nirvana_163 Start: 110396, Stop: 111346, Start Num: 23
Candidate Starts for Nirvana_163:
(19, 110357), (21, 110378), (Start: 23 @110396 has 9 MA's), (25, 110441), (27, 110474), (29, 110480), (30, 110507), (34, 110579), (35, 110606), (38, 110711), (40, 110726), (41, 110741), (42, 110804), (43, 110837), (44, 110840), (45, 110876), (49, 110960), (53, 110999), (54, 111008), (56, 111032), (58, 111086), (59, 111110), (60, 111122), (61, 111182),

Gene: Quantum_156 Start: 103825, Stop: 104775, Start Num: 23
Candidate Starts for Quantum_156:
(1, 102454), (2, 102514), (3, 102649), (4, 102832), (5, 103153), (6, 103243), (7, 103315), (8, 103471), (9, 103504), (10, 103576), (11, 103582), (12, 103618), (13, 103630), (14, 103675), (15, 103684), (16, 103696), (17, 103711), (18, 103753), (Start: 23 @103825 has 9 MA's), (25, 103870), (27, 103903), (28, 103906), (29, 103909), (30, 103936), (34, 104008), (39, 104143), (40, 104155), (41, 104170), (42, 104233), (43, 104266), (45, 104305), (46, 104332), (49, 104389), (50, 104410), (53, 104428), (54, 104437), (58, 104515), (60, 104551), (61, 104611), (63, 104665),

Gene: Sarkar_157 Start: 103825, Stop: 104775, Start Num: 23
Candidate Starts for Sarkar_157:
(1, 102454), (2, 102514), (3, 102649), (4, 102832), (5, 103153), (6, 103243), (7, 103315), (8, 103471), (9, 103504), (10, 103576), (11, 103582), (12, 103618), (13, 103630), (14, 103675), (15, 103684), (16, 103696), (17, 103711), (18, 103753), (Start: 23 @103825 has 9 MA's), (25, 103870), (27, 103903), (28, 103906), (29, 103909), (30, 103936), (34, 104008), (39, 104143), (40, 104155), (41, 104170), (42, 104233), (43, 104266), (45, 104305), (46, 104332), (49, 104389), (50, 104410), (53, 104428), (54, 104437), (58, 104515), (60, 104551), (61, 104611), (63, 104665),

Gene: Satis_157 Start: 103821, Stop: 104771, Start Num: 23
Candidate Starts for Satis_157:
(1, 102450), (2, 102510), (3, 102645), (4, 102828), (5, 103149), (6, 103239), (7, 103311), (8, 103467), (9, 103500), (10, 103572), (11, 103578), (12, 103614), (13, 103626), (14, 103671), (15, 103680), (16, 103692), (17, 103707), (18, 103749), (Start: 23 @103821 has 9 MA's), (25, 103866), (27, 103899), (28, 103902), (29, 103905), (30, 103932), (31, 103974), (32, 103983), (34, 104004), (39, 104139), (40, 104151), (41, 104166), (42, 104229), (43, 104262), (45, 104301), (46, 104328), (49, 104385), (50, 104406), (53, 104424), (54, 104433), (58, 104511), (60, 104547), (61, 104607), (63, 104661),