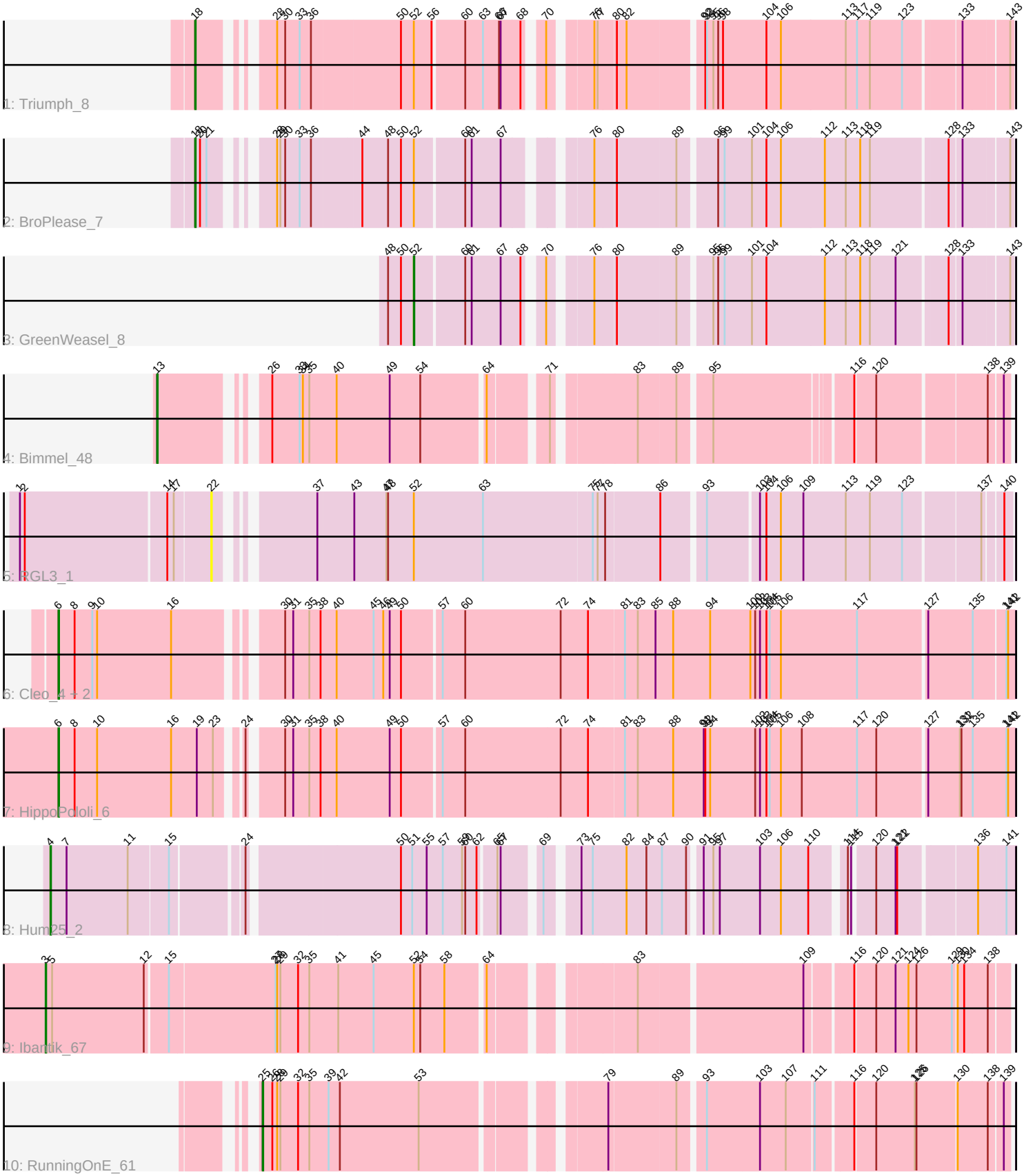
Pham 346304


1: Triumph_8
2: BroPlease_7
3: GreenWeasel_8
4: Bimmel_48
5: RGL3_1
6: Cleo_4 + 2
7: HippoPdoli_6
8: Hum25_2
9: Ibartik_67
10: RunningOnE_61

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 346304 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 346304 has 12 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Triumph_8
• Track 2 : BroPlease_7
• Track 3 : GreenWeasel_8
• Track 4 : Bimmel_48
• Track 5 : RGL3_1
• Track 6 : Cleo_4, Gibbous_4, Dre3_4
• Track 7 : HippoPololi_6
• Track 8 : Hum25_2
• Track 9 : Ibantik_67
• Track 10 : RunningOnE_61

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

The start number called the most often in the published annotations is 6, it was called in 4 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cleo_4, Dre3_4, Gibbous_4, HippoPololi_6,

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

Genes that do not have the "Most Annotated" start:
• Bimmel_48, BroPlease_7, GreenWeasel_8, Hum25_2, Ibantik_67, RGL3_1, RunningOnE_61, Triumph_8,

Summary by start number:

Start 3:
• Found in 1 of 12 (8.3%) of genes in pham

• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_67 (JN),

Start 4:
• Found in 1 of 12 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hum25_2 (FQ1),

Start 6:
• Found in 4 of 12 (33.3%) of genes in pham
• Manual Annotations of this start: 4 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cleo_4 (CT), Dre3_4 (CT), Gibbous_4 (CT), HippoPololi_6 (CT),

Start 13:
• Found in 1 of 12 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bimmel_48 (BT),

Start 18:
• Found in 2 of 12 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BroPlease_7 (BD4), Triumph_8 (BD2),

Start 22:
• Found in 1 of 12 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RGL3_1 (CA),

Start 25:
• Found in 1 of 12 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RunningOnE_61 (JN),

Start 52:
• Found in 5 of 12 (41.7%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 20.0% of time when present
• Phage (with cluster) where this start called: GreenWeasel_8 (BD4),

Summary by clusters:

There are 7 clusters represented in this pham: CA, BT, BD4, JN, BD2, FQ1, CT,

Info for manual annotations of cluster BD2:
•Start number 18 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD4:
•Start number 18 was manually annotated 1 time for cluster BD4.
•Start number 52 was manually annotated 1 time for cluster BD4.

Info for manual annotations of cluster BT:
•Start number 13 was manually annotated 1 time for cluster BT.

Info for manual annotations of cluster CT:
•Start number 6 was manually annotated 4 times for cluster CT.

Info for manual annotations of cluster FQ1:
•Start number 4 was manually annotated 1 time for cluster FQ1.

Info for manual annotations of cluster JN:
•Start number 3 was manually annotated 1 time for cluster JN.
•Start number 25 was manually annotated 1 time for cluster JN.

Gene Information:

Gene: Bimmel_48 Start: 25564, Stop: 26946, Start Num: 13
Candidate Starts for Bimmel_48:
(Start: 13 @25564 has 1 MA's), (26, 25717), (33, 25768), (34, 25774), (35, 25786), (40, 25837), (49, 25933), (54, 25990), (64, 26101), (71, 26194), (83, 26329), (89, 26398), (95, 26452), (116, 26686), (120, 26722), (138, 26911), (139, 26935),

Gene: BroPlease_7 Start: 2717, Stop: 4060, Start Num: 18
Candidate Starts for BroPlease_7:
(Start: 18 @2717 has 2 MA's), (20, 2726), (21, 2738), (28, 2810), (29, 2816), (30, 2825), (33, 2852), (36, 2873), (44, 2960), (48, 3008), (50, 3032), (Start: 52 @3056 has 1 MA's), (60, 3143), (61, 3155), (67, 3209), (76, 3332), (80, 3368), (89, 3476), (96, 3539), (99, 3551), (101, 3602), (104, 3629), (106, 3656), (112, 3737), (113, 3776), (118, 3803), (119, 3821), (128, 3956), (133, 3977), (143, 4055),

Gene: Cleo_4 Start: 1285, Stop: 2979, Start Num: 6
Candidate Starts for Cleo_4:
(Start: 6 @1285 has 4 MA's), (8, 1315), (9, 1348), (10, 1357), (16, 1495), (30, 1657), (31, 1672), (35, 1702), (38, 1723), (40, 1753), (45, 1822), (46, 1840), (49, 1852), (50, 1873), (57, 1942), (60, 1984), (72, 2161), (74, 2212), (81, 2275), (83, 2299), (85, 2332), (88, 2365), (94, 2434), (100, 2509), (102, 2518), (103, 2527), (104, 2539), (105, 2545), (106, 2566), (117, 2704), (127, 2827), (135, 2908), (141, 2965), (142, 2968),

Gene: Dre3_4 Start: 1229, Stop: 2923, Start Num: 6
Candidate Starts for Dre3_4:
(Start: 6 @1229 has 4 MA's), (8, 1259), (9, 1292), (10, 1301), (16, 1439), (30, 1601), (31, 1616), (35, 1646), (38, 1667), (40, 1697), (45, 1766), (46, 1784), (49, 1796), (50, 1817), (57, 1886), (60, 1928), (72, 2105), (74, 2156), (81, 2219), (83, 2243), (85, 2276), (88, 2309), (94, 2378), (100, 2453), (102, 2462), (103, 2471), (104, 2483), (105, 2489), (106, 2510), (117, 2648), (127, 2771), (135, 2852), (141, 2909), (142, 2912),

Gene: Gibbous_4 Start: 1229, Stop: 2923, Start Num: 6

Candidate Starts for Gibbous_4:
(Start: 6 @1229 has 4 MA's), (8, 1259), (9, 1292), (10, 1301), (16, 1439), (30, 1601), (31, 1616), (35, 1646), (38, 1667), (40, 1697), (45, 1766), (46, 1784), (49, 1796), (50, 1817), (57, 1886), (60, 1928), (72, 2105), (74, 2156), (81, 2219), (83, 2243), (85, 2276), (88, 2309), (94, 2378), (100, 2453), (102, 2462), (103, 2471), (104, 2483), (105, 2489), (106, 2510), (117, 2648), (127, 2771), (135, 2852), (141, 2909), (142, 2912),

Gene: GreenWeasel_8 Start: 3065, Stop: 4069, Start Num: 52
Candidate Starts for GreenWeasel_8:
(48, 3017), (50, 3041), (Start: 52 @3065 has 1 MA's), (60, 3152), (61, 3164), (67, 3218), (68, 3254), (70, 3278), (76, 3341), (80, 3377), (89, 3485), (95, 3539), (96, 3548), (99, 3560), (101, 3611), (104, 3638), (112, 3746), (113, 3785), (118, 3812), (119, 3830), (121, 3878), (128, 3965), (133, 3986), (143, 4064),

Gene: HippoPololi_6 Start: 1863, Stop: 3563, Start Num: 6
Candidate Starts for HippoPololi_6:
(Start: 6 @1863 has 4 MA's), (8, 1893), (10, 1935), (16, 2073), (19, 2121), (23, 2151), (24, 2184), (30, 2235), (31, 2250), (35, 2280), (38, 2301), (40, 2331), (49, 2430), (50, 2451), (57, 2520), (60, 2562), (72, 2739), (74, 2790), (81, 2853), (83, 2877), (88, 2943), (91, 3000), (92, 3003), (94, 3012), (102, 3096), (103, 3105), (104, 3117), (105, 3123), (106, 3144), (108, 3183), (117, 3282), (120, 3318), (127, 3405), (131, 3462), (132, 3465), (135, 3486), (141, 3549), (142, 3552),

Gene: Hum25_2 Start: 471, Stop: 2078, Start Num: 4
Candidate Starts for Hum25_2:
(Start: 4 @471 has 1 MA's), (7, 501), (11, 615), (15, 687), (24, 807), (50, 1071), (51, 1092), (55, 1116), (57, 1146), (59, 1182), (60, 1188), (62, 1209), (65, 1239), (67, 1245), (69, 1299), (73, 1347), (75, 1368), (82, 1431), (84, 1467), (87, 1491), (90, 1536), (91, 1554), (95, 1572), (97, 1584), (103, 1659), (106, 1698), (110, 1749), (114, 1800), (115, 1806), (120, 1842), (121, 1878), (122, 1881), (136, 2013), (141, 2061),

Gene: Ibantik_67 Start: 28527, Stop: 30182, Start Num: 3
Candidate Starts for Ibantik_67:
(Start: 3 @28527 has 1 MA's), (5, 28539), (12, 28710), (15, 28749), (27, 28941), (28, 28944), (29, 28950), (32, 28983), (35, 29004), (41, 29058), (45, 29121), (Start: 52 @29196 has 1 MA's), (54, 29208), (58, 29253), (64, 29319), (83, 29544), (109, 29832), (116, 29910), (120, 29946), (121, 29982), (124, 30006), (126, 30021), (129, 30087), (130, 30093), (134, 30105), (138, 30147),

Gene: RGL3_1 Start: 361, Stop: 1710, Start Num: 22
Candidate Starts for RGL3_1:
(1, 19), (2, 28), (14, 286), (17, 298), (22, 361), (37, 502), (43, 562), (47, 619), (48, 622), (Start: 52 @670 has 1 MA's), (63, 799), (75, 997), (77, 1006), (78, 1018), (86, 1111), (93, 1183), (103, 1273), (104, 1285), (106, 1312), (109, 1354), (113, 1429), (119, 1474), (123, 1534), (137, 1666), (140, 1696),

Gene: RunningOnE_61 Start: 28302, Stop: 29567, Start Num: 25
Candidate Starts for RunningOnE_61:
(Start: 25 @28302 has 1 MA's), (26, 28320), (28, 28329), (29, 28335), (32, 28368), (35, 28389), (39, 28425), (42, 28446), (53, 28590), (79, 28878), (89, 28998), (93, 29040), (103, 29136), (107, 29184), (111, 29232), (116, 29295), (120, 29331), (125, 29403), (126, 29406), (130, 29478), (138, 29532), (139, 29556),

Gene: Triumph_8 Start: 2519, Stop: 3862, Start Num: 18
Candidate Starts for Triumph_8:

(Start: 18 @2519 has 2 MA's), (28, 2612), (30, 2627), (33, 2654), (36, 2675), (50, 2834), (Start: 52 @2858 has 1 MA's), (56, 2891), (60, 2945), (63, 2978), (66, 3008), (67, 3011), (68, 3047), (70, 3071), (76, 3134), (77, 3140), (80, 3170), (82, 3188), (92, 3317), (93, 3320), (95, 3332), (96, 3341), (98, 3350), (104, 3431), (106, 3458), (113, 3578), (117, 3599), (119, 3623), (123, 3683), (133, 3779), (143, 3857),