

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 297112 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297112 has 13 members, 3 are drafts.

Phages represented in each track:

- Track 1 : YungMoney_5
- Track 2 : Clown_5
- Track 3 : Ali17_2
- Track 4 : Abblin_2, APunk_2, Sampson_2, Scioto_2, Natkenzie_2
- Track 5 : Zipp_2
- Track 6 : ViaConlectus_2
- Track 7 : Delrey21_2, Verity_2, DoctorFroggo_2

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

The start number called the most often in the published annotations is 4, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_2, Abblin_2, Clown_5, Delrey21_2, DoctorFroggo_2, Natkenzie_2, Sampson_2, Scioto_2, Verity_2, ViaConlectus_2, YungMoney_5, Zipp_2,

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

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Genes that do not have the "Most Annotated" start:

- Ali17_2,

Summary by start number:

Start 4:

- Found in 12 of 13 (92.3%) 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: APunk_2 (DE4), Abblin_2 (DE4), Clown_5 (DC2), Delrey21_2 (DE4), DoctorFroggo_2 (DE4), Natkenzie_2 (DE4), Sampson_2 (DE4), Scioto_2 (DE4), Verity_2 (DE4), ViaConlectus_2 (DE4), YungMoney_5 (DC1), Zipp_2 (DE4),

Start 5:

- Found in 1 of 13 (7.7%) 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: Ali17_2 (DE2),

Summary by clusters:

There are 4 clusters represented in this pham: DC2, DE2, DE4, DC1,

Info for manual annotations of cluster DC1:

- Start number 4 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 4 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE2:

- Start number 5 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 4 was manually annotated 7 times for cluster DE4.

Gene Information:

Gene: APunk_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for APunk_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (21, 833), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (41, 1283), (45, 1346), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (57, 1580), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (73, 1889), (74, 1949), (77, 1991), (80, 2051), (81, 2063), (82, 2084), (83, 2120), (84, 2123), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (96, 2462), (98, 2522), (101, 2636), (106, 2699), (107, 2705), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963),

Gene: Abblin_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for Abblin_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (21, 833), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (41, 1283), (45, 1346), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (57, 1580), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (73, 1889), (74, 1949), (77, 1991), (80, 2051), (81, 2063), (82, 2084), (83, 2120), (84, 2123), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (96, 2462), (98, 2522), (101, 2636), (106, 2699), (107, 2705), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963),

Gene: Ali17_2 Start: 534, Stop: 3170, Start Num: 5

Candidate Starts for Ali17_2:

(Start: 5 @534 has 1 MA's), (11, 657), (12, 663), (13, 687), (14, 708), (15, 732), (16, 741), (17, 759), (18, 762), (21, 864), (22, 888), (25, 933), (26, 963), (29, 1020), (30, 1035), (31, 1038), (33, 1080), (37, 1149), (38, 1212), (41, 1314), (45, 1377), (47, 1428), (52, 1545), (53, 1560), (54, 1572), (57, 1611), (58, 1623), (59, 1629), (63, 1752), (64, 1779), (67, 1812), (69, 1836), (70, 1881), (73, 1920), (74, 1980), (77, 2022), (78, 2028), (80, 2082), (81, 2094), (82, 2115), (83, 2151), (85, 2160), (87, 2232), (89, 2244), (90,

2265), (91, 2289), (93, 2427), (94, 2454), (101, 2673), (105, 2712), (107, 2742), (109, 2769), (110, 2781), (111, 2787), (116, 2868), (119, 2901), (120, 2904), (125, 3045), (126, 3063), (127, 3075), (128, 3093), (130, 3144),

Gene: Clown_5 Start: 1817, Stop: 4576, Start Num: 4

Candidate Starts for Clown_5:

(1, 1472), (2, 1541), (3, 1550), (Start: 4 @1817 has 9 MA's), (7, 1865), (8, 1889), (9, 1901), (11, 1961), (12, 1967), (13, 1988), (17, 2060), (19, 2126), (20, 2132), (24, 2219), (27, 2300), (28, 2342), (33, 2432), (40, 2654), (44, 2738), (48, 2867), (49, 2906), (51, 2966), (57, 3041), (61, 3095), (65, 3230), (72, 3356), (75, 3455), (79, 3524), (81, 3569), (82, 3590), (83, 3626), (85, 3635), (86, 3692), (88, 3716), (96, 3938), (99, 4058), (102, 4106), (104, 4139), (108, 4175), (110, 4211), (112, 4235), (118, 4289), (121, 4379), (122, 4403), (123, 4406), (125, 4454), (126, 4472), (128, 4502), (129, 4514), (130, 4550),

Gene: Delrey21_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for Delrey21_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (42, 1307), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (70, 1850), (73, 1889), (74, 1949), (77, 1991), (81, 2063), (82, 2084), (83, 2120), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (97, 2510), (98, 2522), (101, 2636), (106, 2699), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963), (125, 3011), (126, 3029),

Gene: DoctorFroggo_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for DoctorFroggo_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (42, 1307), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (70, 1850), (73, 1889), (74, 1949), (77, 1991), (81, 2063), (82, 2084), (83, 2120), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (97, 2510), (98, 2522), (101, 2636), (106, 2699), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963), (125, 3011), (126, 3029),

Gene: Natkenzie_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for Natkenzie_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (21, 833), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (41, 1283), (45, 1346), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (57, 1580), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (73, 1889), (74, 1949), (77, 1991), (80, 2051), (81, 2063), (82, 2084), (83, 2120), (84, 2123), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (96, 2462), (98, 2522), (101, 2636), (106, 2699), (107, 2705), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963),

Gene: Sampson_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for Sampson_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (21, 833), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (41, 1283), (45, 1346), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (57, 1580), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (73, 1889), (74, 1949), (77, 1991), (80, 2051), (81, 2063), (82, 2084), (83, 2120), (84, 2123), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (96, 2462), (98, 2522), (101, 2636), (106, 2699), (107, 2705), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963),

Gene: Scioto_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for Scioto_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (21, 833), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (41, 1283), (45, 1346), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (57, 1580), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (73, 1889), (74, 1949), (77, 1991), (80, 2051), (81, 2063), (82, 2084), (83, 2120), (84, 2123), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (96, 2462), (98, 2522), (101, 2636), (106, 2699), (107, 2705), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963),

Gene: Verity_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for Verity_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (42, 1307), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (70, 1850), (73, 1889), (74, 1949), (77, 1991), (81, 2063), (82, 2084), (83, 2120), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (97, 2510), (98, 2522), (101, 2636), (106, 2699), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963), (125, 3011), (126, 3029),

Gene: ViaConlectus_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for ViaConlectus_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (21, 833), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (41, 1283), (45, 1346), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (57, 1580), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (70, 1850), (73, 1889), (74, 1949), (77, 1991), (80, 2051), (81, 2063), (82, 2084), (83, 2120), (84, 2123), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (96, 2462), (98, 2522), (101, 2636), (106, 2699), (107, 2705), (109, 2732), (112, 2768), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (123, 2963),

Gene: YungMoney_5 Start: 1791, Stop: 4376, Start Num: 4

Candidate Starts for YungMoney_5:

(Start: 4 @1791 has 9 MA's), (7, 1839), (13, 1962), (17, 2034), (23, 2169), (32, 2370), (34, 2385), (35, 2403), (36, 2406), (39, 2556), (43, 2640), (46, 2688), (50, 2778), (55, 2868), (56, 2871), (60, 2925), (62, 2967), (63, 3027), (66, 3066), (67, 3087), (68, 3105), (71, 3174), (74, 3255), (76, 3270), (77, 3297), (79, 3324), (80, 3357), (82, 3390), (83, 3426), (85, 3435), (100, 3864), (102, 3906), (105, 3942), (108, 3975), (109, 3999), (114, 4065), (115, 4068), (116, 4077), (118, 4089), (123, 4206), (124, 4242), (125, 4254), (128, 4302),

Gene: Zipp_2 Start: 491, Stop: 3136, Start Num: 4

Candidate Starts for Zipp_2:

(Start: 4 @491 has 9 MA's), (6, 530), (10, 581), (14, 677), (15, 701), (17, 728), (22, 857), (25, 902), (26, 932), (29, 989), (30, 1004), (31, 1007), (33, 1049), (37, 1118), (38, 1181), (42, 1307), (47, 1397), (52, 1514), (53, 1529), (54, 1541), (58, 1592), (59, 1598), (63, 1721), (64, 1748), (69, 1805), (70, 1850), (73, 1889), (74, 1949), (77, 1991), (80, 2051), (81, 2063), (82, 2084), (83, 2120), (84, 2123), (85, 2129), (87, 2201), (89, 2213), (90, 2234), (92, 2315), (93, 2396), (94, 2423), (95, 2435), (101, 2636), (103, 2666), (106, 2699), (109, 2732), (113, 2807), (117, 2837), (118, 2846), (119, 2867), (125, 3011),