



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 200754 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200754 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),