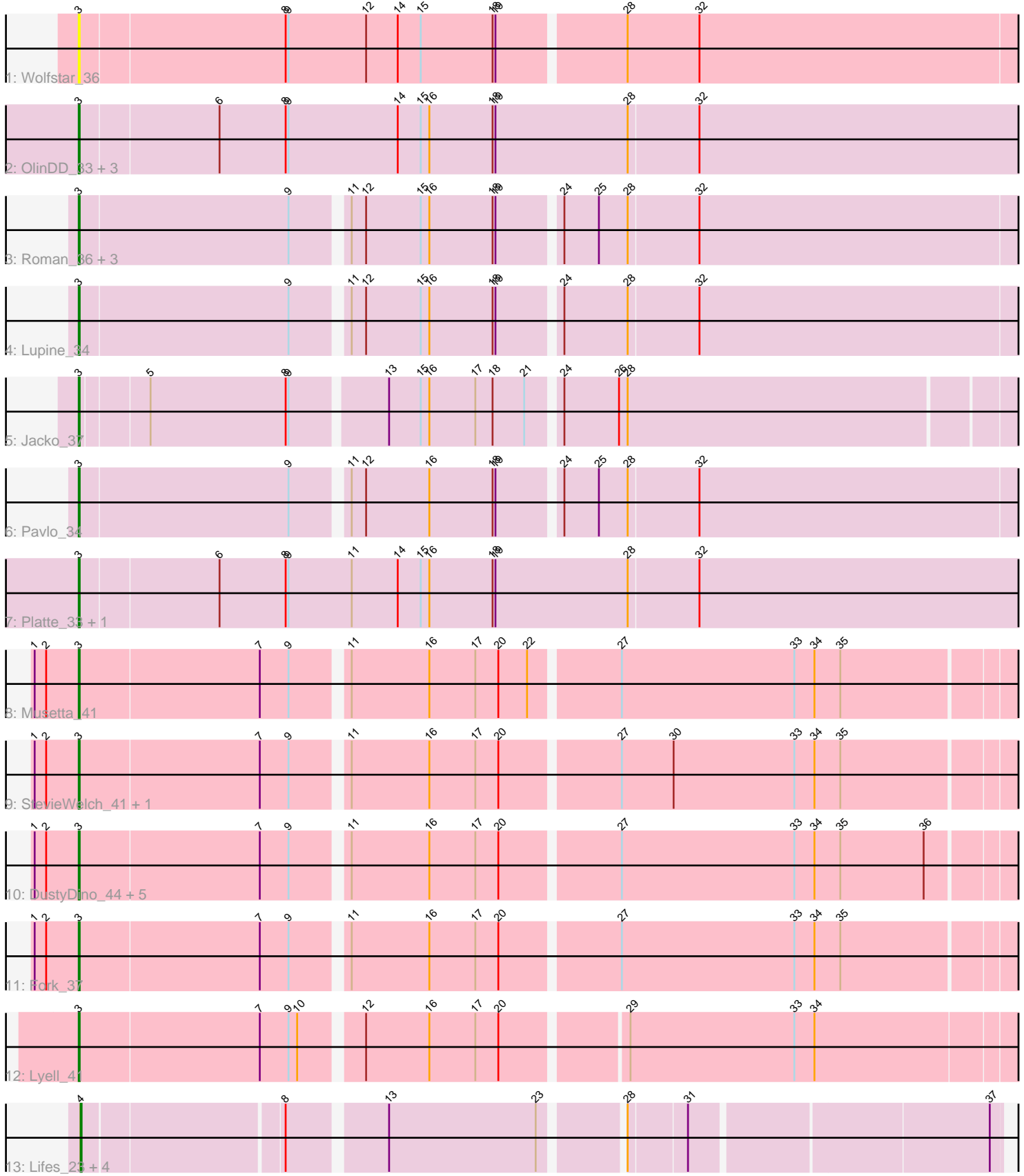


Pham 3012



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 3012 Report

This analysis was run 04/28/24 on database version 559.

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 3012 has 30 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_36
- Track 2 : OlinDD_33, Hortus1_33, Pioneer3_33, Tandem_33
- Track 3 : Roman_36, Hubbs_36, PhillyPhilly_35, DejaVu_37
- Track 4 : Lupine_34
- Track 5 : Jacko_37
- Track 6 : Pavlo_34
- Track 7 : Platte_33, Alleb_34
- Track 8 : Musetta_41
- Track 9 : StevieWelch_41, Welcome_42
- Track 10 : DustyDino_44, RunningBrook_43, Erenyeager_41, Necrophoxinus_43, Yuma_40, ASegato_40
- Track 11 : Fork_37
- Track 12 : Lyell_41
- Track 13 : Lifes_23, LeeroyJenkins_25, Cassita_25, WaterT_24, BarnCat_22

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

The start number called the most often in the published annotations is 3, it was called in 22 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_40, Alleb_34, DejaVu_37, DustyDino_44, Erenyeager_41, Fork_37, Hortus1_33, Hubbs_36, Jacko_37, Lupine_34, Lyell_41, Musetta_41, Necrophoxinus_43, OlinDD_33, Pavlo_34, PhillyPhilly_35, Pioneer3_33, Platte_33, Roman_36, RunningBrook_43, StevieWelch_41, Tandem_33, Welcome_42, Wolfstar_36, Yuma_40,

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

-

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

- BarnCat_22, Cassita_25, LeeroyJenkins_25, Lifes_23, WaterT_24,

Summary by start number:

Start 3:

- Found in 25 of 30 (83.3%) of genes in pham
- Manual Annotations of this start: 22 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato_40 (ED2), Alleb_34 (ED1), DejaVu_37 (ED1), DustyDino_44 (ED2), Erenyeager_41 (ED2), Fork_37 (ED2), Hortus1_33 (ED1), Hubbs_36 (ED1), Jacko_37 (ED1), Lupine_34 (ED1), Lyell_41 (ED2), Musetta_41 (ED2), Necrophoxinus_43 (ED2), OlinDD_33 (ED1), Pavlo_34 (ED1), PhillyPhilly_35 (ED1), Pioneer3_33 (ED1), Platte_33 (ED1), Roman_36 (ED1), RunningBrook_43 (ED2), StevieWelch_41 (ED2), Tandem_33 (ED1), Welcome_42 (ED2), Wolfstar_36 (ED), Yuma_40 (ED2),

Start 4:

- Found in 5 of 30 (16.7%) of genes in pham
- Manual Annotations of this start: 4 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarnCat_22 (GB), Cassita_25 (GB), LeeroyJenkins_25 (GB), Lifes_23 (GB), WaterT_24 (GB),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, ED1, GB,

Info for manual annotations of cluster ED1:

- Start number 3 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 3 was manually annotated 9 times for cluster ED2.

Info for manual annotations of cluster GB:

- Start number 4 was manually annotated 4 times for cluster GB.

Gene Information:

Gene: ASegato_40 Start: 16260, Stop: 17201, Start Num: 3

Candidate Starts for ASegato_40:

(1, 16215), (2, 16227), (Start: 3 @16260 has 22 MA's), (7, 16446), (9, 16476), (11, 16527), (16, 16608), (17, 16656), (20, 16680), (27, 16797), (33, 16977), (34, 16998), (35, 17025), (36, 17112),

Gene: Alleb_34 Start: 14751, Stop: 15737, Start Num: 3

Candidate Starts for Alleb_34:

(Start: 3 @14751 has 22 MA's), (6, 14892), (8, 14961), (9, 14964), (11, 15030), (14, 15078), (15, 15102), (16, 15111), (18, 15177), (19, 15180), (28, 15318), (32, 15390),

Gene: BarnCat_22 Start: 9678, Stop: 10562, Start Num: 4

Candidate Starts for BarnCat_22:

(Start: 4 @9678 has 4 MA's), (8, 9876), (13, 9969), (23, 10122), (28, 10197), (31, 10254), (37, 10551),

Gene: Cassita_25 Start: 10239, Stop: 11123, Start Num: 4

Candidate Starts for Cassita_25:

(Start: 4 @10239 has 4 MA's), (8, 10437), (13, 10530), (23, 10683), (28, 10758), (31, 10815), (37, 11112),

Gene: DejaVu_37 Start: 15572, Stop: 16528, Start Num: 3

Candidate Starts for DejaVu_37:

(Start: 3 @15572 has 22 MA's), (9, 15788), (11, 15839), (12, 15854), (15, 15911), (16, 15920), (18, 15986), (19, 15989), (24, 16049), (25, 16085), (28, 16115), (32, 16187),

Gene: DustyDino_44 Start: 17199, Stop: 18140, Start Num: 3

Candidate Starts for DustyDino_44:

(1, 17154), (2, 17166), (Start: 3 @17199 has 22 MA's), (7, 17385), (9, 17415), (11, 17466), (16, 17547), (17, 17595), (20, 17619), (27, 17736), (33, 17916), (34, 17937), (35, 17964), (36, 18051),

Gene: Erenyeager_41 Start: 16594, Stop: 17535, Start Num: 3

Candidate Starts for Erenyeager_41:

(1, 16549), (2, 16561), (Start: 3 @16594 has 22 MA's), (7, 16780), (9, 16810), (11, 16861), (16, 16942), (17, 16990), (20, 17014), (27, 17131), (33, 17311), (34, 17332), (35, 17359), (36, 17446),

Gene: Fork_37 Start: 15909, Stop: 16850, Start Num: 3

Candidate Starts for Fork_37:

(1, 15864), (2, 15876), (Start: 3 @15909 has 22 MA's), (7, 16095), (9, 16125), (11, 16176), (16, 16257), (17, 16305), (20, 16329), (27, 16446), (33, 16626), (34, 16647), (35, 16674),

Gene: Hortus1_33 Start: 14765, Stop: 15751, Start Num: 3

Candidate Starts for Hortus1_33:

(Start: 3 @14765 has 22 MA's), (6, 14906), (8, 14975), (9, 14978), (14, 15092), (15, 15116), (16, 15125), (18, 15191), (19, 15194), (28, 15332), (32, 15404),

Gene: Hubbs_36 Start: 15784, Stop: 16740, Start Num: 3

Candidate Starts for Hubbs_36:

(Start: 3 @15784 has 22 MA's), (9, 16000), (11, 16051), (12, 16066), (15, 16123), (16, 16132), (18, 16198), (19, 16201), (24, 16261), (25, 16297), (28, 16327), (32, 16399),

Gene: Jacko_37 Start: 15287, Stop: 16231, Start Num: 3

Candidate Starts for Jacko_37:

(Start: 3 @15287 has 22 MA's), (5, 15353), (8, 15494), (9, 15497), (13, 15590), (15, 15623), (16, 15632), (17, 15680), (18, 15698), (21, 15731), (24, 15761), (26, 15818), (28, 15827),

Gene: LeeroyJenkins_25 Start: 10157, Stop: 11041, Start Num: 4

Candidate Starts for LeeroyJenkins_25:

(Start: 4 @10157 has 4 MA's), (8, 10355), (13, 10448), (23, 10601), (28, 10676), (31, 10733), (37, 11030),

Gene: Lifes_23 Start: 9709, Stop: 10593, Start Num: 4

Candidate Starts for Lifes_23:

(Start: 4 @9709 has 4 MA's), (8, 9907), (13, 10000), (23, 10153), (28, 10228), (31, 10285), (37, 10582),

Gene: Lupine_34 Start: 14985, Stop: 15941, Start Num: 3

Candidate Starts for Lupine_34:

(Start: 3 @14985 has 22 MA's), (9, 15201), (11, 15252), (12, 15267), (15, 15324), (16, 15333), (18, 15399), (19, 15402), (24, 15462), (28, 15528), (32, 15600),

Gene: Lyell_41 Start: 16521, Stop: 17459, Start Num: 3

Candidate Starts for Lyell_41:

(Start: 3 @16521 has 22 MA's), (7, 16707), (9, 16737), (10, 16746), (12, 16803), (16, 16869), (17, 16917), (20, 16941), (29, 17061), (33, 17232), (34, 17253),

Gene: Musetta_41 Start: 16628, Stop: 17569, Start Num: 3

Candidate Starts for Musetta_41:

(1, 16583), (2, 16595), (Start: 3 @16628 has 22 MA's), (7, 16814), (9, 16844), (11, 16895), (16, 16976), (17, 17024), (20, 17048), (22, 17078), (27, 17165), (33, 17345), (34, 17366), (35, 17393),

Gene: Necrophoxinus_43 Start: 17207, Stop: 18148, Start Num: 3

Candidate Starts for Necrophoxinus_43:

(1, 17162), (2, 17174), (Start: 3 @17207 has 22 MA's), (7, 17393), (9, 17423), (11, 17474), (16, 17555), (17, 17603), (20, 17627), (27, 17744), (33, 17924), (34, 17945), (35, 17972), (36, 18059),

Gene: OlinDD_33 Start: 14764, Stop: 15750, Start Num: 3

Candidate Starts for OlinDD_33:

(Start: 3 @14764 has 22 MA's), (6, 14905), (8, 14974), (9, 14977), (14, 15091), (15, 15115), (16, 15124), (18, 15190), (19, 15193), (28, 15331), (32, 15403),

Gene: Pavlo_34 Start: 15260, Stop: 16216, Start Num: 3

Candidate Starts for Pavlo_34:

(Start: 3 @15260 has 22 MA's), (9, 15476), (11, 15527), (12, 15542), (16, 15608), (18, 15674), (19, 15677), (24, 15737), (25, 15773), (28, 15803), (32, 15875),

Gene: PhillyPhilly_35 Start: 15165, Stop: 16121, Start Num: 3

Candidate Starts for PhillyPhilly_35:

(Start: 3 @15165 has 22 MA's), (9, 15381), (11, 15432), (12, 15447), (15, 15504), (16, 15513), (18, 15579), (19, 15582), (24, 15642), (25, 15678), (28, 15708), (32, 15780),

Gene: Pioneer3_33 Start: 14748, Stop: 15734, Start Num: 3

Candidate Starts for Pioneer3_33:

(Start: 3 @14748 has 22 MA's), (6, 14889), (8, 14958), (9, 14961), (14, 15075), (15, 15099), (16, 15108), (18, 15174), (19, 15177), (28, 15315), (32, 15387),

Gene: Platte_33 Start: 14533, Stop: 15519, Start Num: 3

Candidate Starts for Platte_33:

(Start: 3 @14533 has 22 MA's), (6, 14674), (8, 14743), (9, 14746), (11, 14812), (14, 14860), (15, 14884), (16, 14893), (18, 14959), (19, 14962), (28, 15100), (32, 15172),

Gene: Roman_36 Start: 15631, Stop: 16587, Start Num: 3

Candidate Starts for Roman_36:

(Start: 3 @15631 has 22 MA's), (9, 15847), (11, 15898), (12, 15913), (15, 15970), (16, 15979), (18, 16045), (19, 16048), (24, 16108), (25, 16144), (28, 16174), (32, 16246),

Gene: RunningBrook_43 Start: 17199, Stop: 18140, Start Num: 3

Candidate Starts for RunningBrook_43:

(1, 17154), (2, 17166), (Start: 3 @17199 has 22 MA's), (7, 17385), (9, 17415), (11, 17466), (16, 17547), (17, 17595), (20, 17619), (27, 17736), (33, 17916), (34, 17937), (35, 17964), (36, 18051),

Gene: StevieWelch_41 Start: 16599, Stop: 17540, Start Num: 3

Candidate Starts for StevieWelch_41:

(1, 16554), (2, 16566), (Start: 3 @16599 has 22 MA's), (7, 16785), (9, 16815), (11, 16866), (16, 16947), (17, 16995), (20, 17019), (27, 17136), (30, 17190), (33, 17316), (34, 17337), (35, 17364),

Gene: Tandem_33 Start: 14687, Stop: 15673, Start Num: 3

Candidate Starts for Tandem_33:

(Start: 3 @14687 has 22 MA's), (6, 14828), (8, 14897), (9, 14900), (14, 15014), (15, 15038), (16, 15047), (18, 15113), (19, 15116), (28, 15254), (32, 15326),

Gene: WaterT_24 Start: 9983, Stop: 10867, Start Num: 4

Candidate Starts for WaterT_24:

(Start: 4 @9983 has 4 MA's), (8, 10181), (13, 10274), (23, 10427), (28, 10502), (31, 10559), (37, 10856),

Gene: Welcome_42 Start: 16616, Stop: 17557, Start Num: 3

Candidate Starts for Welcome_42:

(1, 16571), (2, 16583), (Start: 3 @16616 has 22 MA's), (7, 16802), (9, 16832), (11, 16883), (16, 16964), (17, 17012), (20, 17036), (27, 17153), (30, 17207), (33, 17333), (34, 17354), (35, 17381),

Gene: Wolfstar_36 Start: 15552, Stop: 16523, Start Num: 3

Candidate Starts for Wolfstar_36:

(Start: 3 @15552 has 22 MA's), (8, 15762), (9, 15765), (12, 15846), (14, 15879), (15, 15903), (18, 15978), (19, 15981), (28, 16107), (32, 16182),

Gene: Yuma_40 Start: 16527, Stop: 17468, Start Num: 3

Candidate Starts for Yuma_40:

(1, 16482), (2, 16494), (Start: 3 @16527 has 22 MA's), (7, 16713), (9, 16743), (11, 16794), (16, 16875), (17, 16923), (20, 16947), (27, 17064), (33, 17244), (34, 17265), (35, 17292), (36, 17379),