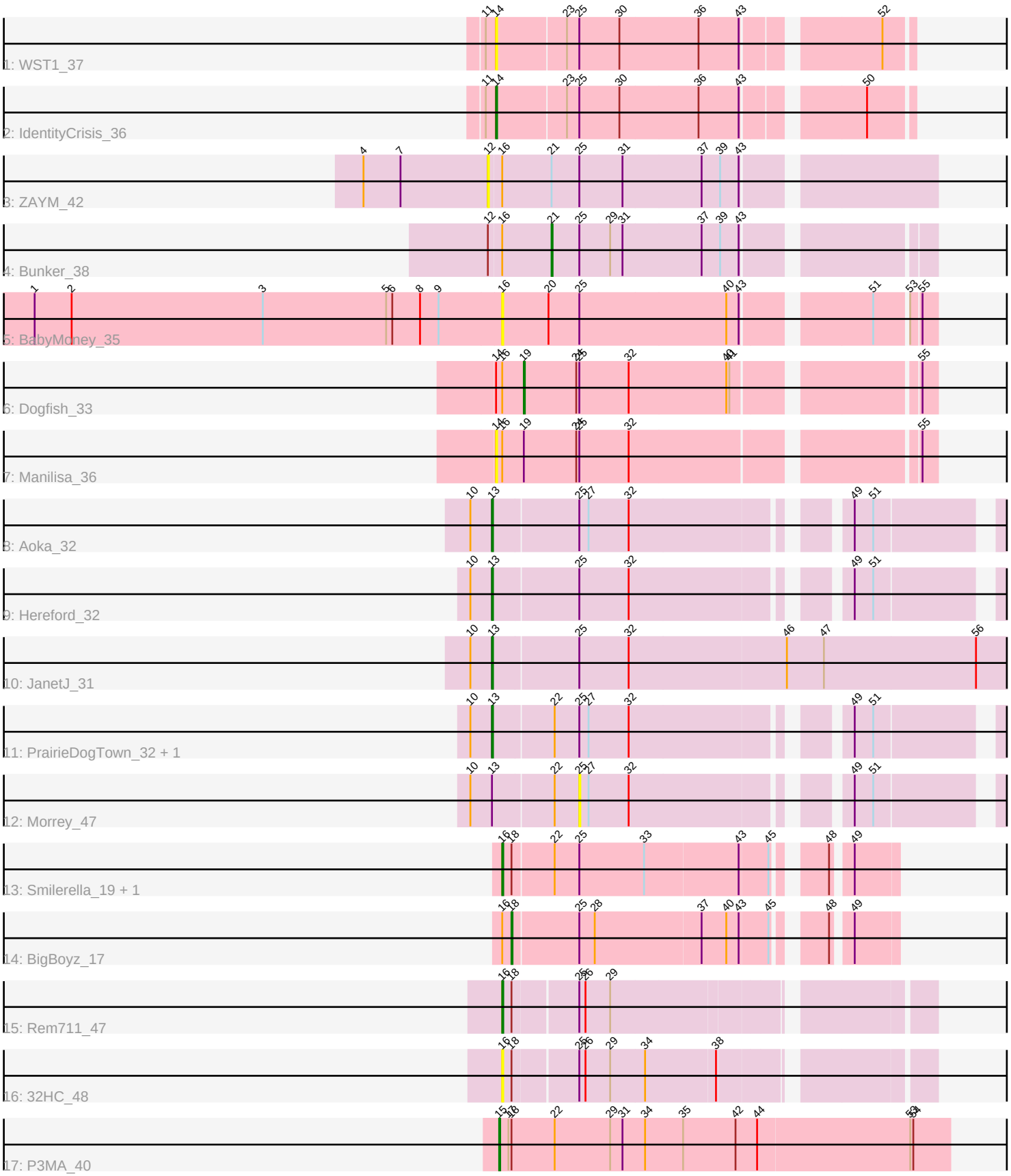
Pham 348082


1: WST1_37
2: IdentityCrisis_36
3: ZAYM_42
4: Bunker_38
5: BabyMoney_35
6: Dogfish_33
7: Manilisa_36
8: Aoka_32
9: Hereford_32
10: JanetJ_31
11: PrairieDogTown_32 + 1
12: Morrey_47
13: Smilerella_19 + 1
14: BigBoyz_17
15: Rem711_47
16: 32HC_48
17: P3MA_40

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 348082 Report

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

Pham number 348082 has 19 members, 6 are drafts.

Phages represented in each track:
- Track 1 : WST1_37
- Track 2 : IdentityCrisis_36
- Track 3 : ZAYM_42
- Track 4 : Bunker_38
- Track 5 : BabyMoney_35
- Track 6 : Dogfish_33
- Track 7 : Manilisa_36
- Track 8 : Aoka_32
- Track 9 : Hereford_32
- Track 10 : JanetJ_31
- Track 11 : PrairieDogTown_32, EvenBluerMoon_31
- Track 12 : Morrey_47
- Track 13 : Smilerella_19, MoRicky_19
- Track 14 : BigBoyz_17
- Track 15 : Rem711_47
- Track 16 : 32HC_48
- Track 17 : P3MA_40

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

The start number called the most often in the published annotations is 13, it was called in 5 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Aoka_32, EvenBluerMoon_31, Hereford_32, JanetJ_31, PrairieDogTown_32,

Genes that have the "Most Annotated" start but do not call it:
- Morrey_47,

Genes that do not have the "Most Annotated" start:
- 32HC_48, BabyMoney_35, BigBoyz_17, Bunker_38, Dogfish_33, IdentityCrisis_36, Manilisa_36, MoRicky_19, P3MA_40, Rem711_47, Smilerella_19, WST1_37, ZAYM_42,

Summary by start number:

Start 12:
• Found in 2 of 19 (10.5%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: ZAYM_42 (DB),

Start 13:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 5 of 13
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Aoka_32 (FO), EvenBluerMoon_31 (FO), Hereford_32 (FO), JanetJ_31 (FO), PrairieDogTown_32 (FO),

Start 14:
• Found in 4 of 19 (21.1%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 75.0% of time when present
• Phage (with cluster) where this start called: IdentityCrisis_36 (AJ), Manilisa_36 (DT), WST1_37 (AJ),

Start 15:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P3MA_40 (singleton),

Start 16:
• Found in 10 of 19 (52.6%) of genes in pham
• Manual Annotations of this start: 3 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: 32HC_48 (Z), BabyMoney_35 (DT), MoRicky_19 (GH), Rem711_47 (Z), Smilerella_19 (GH),

Start 18:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 16.7% of time when present
• Phage (with cluster) where this start called: BigBoyz_17 (GH),

Start 19:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dogfish_33 (DT),

Start 21:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bunker_38 (DB),

Start 25:
• Found in 18 of 19 (94.7%) of genes in pham
• No Manual Annotations of this start.
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Morrey_47 (FO),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, AJ, DB, FO, DT, Z, GH,

Info for manual annotations of cluster AJ:
•Start number 14 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster DB:
•Start number 21 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DT:
•Start number 19 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster FO:
•Start number 13 was manually annotated 5 times for cluster FO.

Info for manual annotations of cluster GH:
•Start number 16 was manually annotated 2 times for cluster GH.
•Start number 18 was manually annotated 1 time for cluster GH.

Info for manual annotations of cluster Z:
•Start number 16 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_48 Start: 34073, Stop: 33696, Start Num: 16
Candidate Starts for 32HC_48:
(Start: 16 @34073 has 3 MA's), (Start: 18 @34064 has 1 MA's), (25, 34004), (26, 33998), (29, 33974), (34, 33941), (38, 33875),

Gene: Aoka_32 Start: 26032, Stop: 25589, Start Num: 13
Candidate Starts for Aoka_32:
(10, 26053), (Start: 13 @26032 has 5 MA's), (25, 25951), (27, 25942), (32, 25903), (49, 25723), (51, 25705),

Gene: BabyMoney_35 Start: 30196, Stop: 29807, Start Num: 16
Candidate Starts for BabyMoney_35:
(1, 30649), (2, 30613), (3, 30427), (5, 30307), (6, 30301), (8, 30274), (9, 30256), (Start: 16 @30196 has 3 MA's), (20, 30151), (25, 30121), (40, 29980), (43, 29968), (51, 29860), (53, 29830), (55, 29821),

Gene: BigBoyz_17 Start: 13646, Stop: 13311, Start Num: 18
Candidate Starts for BigBoyz_17:
(Start: 16 @13655 has 3 MA's), (Start: 18 @13646 has 1 MA's), (25, 13583), (28, 13568), (37, 13466), (40, 13442), (43, 13430), (45, 13403), (48, 13367), (49, 13352),

Gene: Bunker_38 Start: 31743, Stop: 31402, Start Num: 21
Candidate Starts for Bunker_38:
(12, 31803), (Start: 16 @31791 has 3 MA's), (Start: 21 @31743 has 1 MA's), (25, 31716), (29, 31686), (31, 31674), (37, 31599), (39, 31581), (43, 31563),

Gene: Dogfish_33 Start: 29564, Stop: 29196, Start Num: 19
Candidate Starts for Dogfish_33:
(Start: 14 @29591 has 1 MA's), (Start: 16 @29585 has 3 MA's), (Start: 19 @29564 has 1 MA's), (24, 29513), (25, 29510), (32, 29462), (40, 29369), (41, 29366), (55, 29210),

Gene: EvenBluerMoon_31 Start: 26270, Stop: 25827, Start Num: 13
Candidate Starts for EvenBluerMoon_31:
(10, 26291), (Start: 13 @26270 has 5 MA's), (22, 26213), (25, 26189), (27, 26180), (32, 26141), (49, 25961), (51, 25943),

Gene: Hereford_32 Start: 26104, Stop: 25661, Start Num: 13
Candidate Starts for Hereford_32:
(10, 26125), (Start: 13 @26104 has 5 MA's), (25, 26023), (32, 25975), (49, 25795), (51, 25777),

Gene: IdentityCrisis_36 Start: 27388, Stop: 27017, Start Num: 14
Candidate Starts for IdentityCrisis_36:
(11, 27397), (Start: 14 @27388 has 1 MA's), (23, 27322), (25, 27310), (30, 27271), (36, 27196), (43, 27157), (50, 27058),

Gene: JanetJ_31 Start: 26657, Stop: 26154, Start Num: 13
Candidate Starts for JanetJ_31:
(10, 26678), (Start: 13 @26657 has 5 MA's), (25, 26576), (32, 26528), (46, 26378), (47, 26342), (56, 26195),

Gene: Manilisa_36 Start: 30561, Stop: 30166, Start Num: 14
Candidate Starts for Manilisa_36:
(Start: 14 @30561 has 1 MA's), (Start: 16 @30555 has 3 MA's), (Start: 19 @30534 has 1 MA's), (24, 30483), (25, 30480), (32, 30432), (55, 30180),

Gene: MoRicky_19 Start: 14274, Stop: 13930, Start Num: 16
Candidate Starts for MoRicky_19:
(Start: 16 @14274 has 3 MA's), (Start: 18 @14265 has 1 MA's), (22, 14226), (25, 14202), (33, 14139), (43, 14049), (45, 14022), (48, 13986), (49, 13971),

Gene: Morrey_47 Start: 26191, Stop: 25829, Start Num: 25
Candidate Starts for Morrey_47:
(10, 26293), (Start: 13 @26272 has 5 MA's), (22, 26215), (25, 26191), (27, 26182), (32, 26143), (49, 25963), (51, 25945),

Gene: P3MA_40 Start: 30914, Stop: 30480, Start Num: 15
Candidate Starts for P3MA_40:
(Start: 15 @30914 has 1 MA's), (17, 30905), (Start: 18 @30902 has 1 MA's), (22, 30860), (29, 30806), (31, 30794), (34, 30773), (35, 30737), (42, 30686), (44, 30665), (53, 30518), (54, 30515),

Gene: PrairieDogTown_32 Start: 26272, Stop: 25829, Start Num: 13
Candidate Starts for PrairieDogTown_32:
(10, 26293), (Start: 13 @26272 has 5 MA's), (22, 26215), (25, 26191), (27, 26182), (32, 26143), (49, 25963), (51, 25945),

Gene: Rem711_47 Start: 34057, Stop: 33680, Start Num: 16
Candidate Starts for Rem711_47:
(Start: 16 @34057 has 3 MA's), (Start: 18 @34048 has 1 MA's), (25, 33988), (26, 33982), (29, 33958),

Gene: Smilerella_19 Start: 14364, Stop: 14020, Start Num: 16
Candidate Starts for Smilerella_19:
(Start: 16 @14364 has 3 MA's), (Start: 18 @14355 has 1 MA's), (22, 14316), (25, 14292), (33, 14229), (43, 14139), (45, 14112), (48, 14076), (49, 14061),

Gene: WST1_37 Start: 27245, Stop: 26874, Start Num: 14
Candidate Starts for WST1_37:
(11, 27254), (Start: 14 @27245 has 1 MA's), (23, 27179), (25, 27167), (30, 27128), (36, 27053), (43, 27014), (52, 26900),

Gene: ZAYM_42 Start: 32169, Stop: 31759, Start Num: 12
Candidate Starts for ZAYM_42:
(4, 32289), (7, 32253), (12, 32169), (Start: 16 @32157 has 3 MA's), (Start: 21 @32109 has 1 MA's), (25, 32082), (31, 32040), (37, 31965), (39, 31947), (43, 31929),