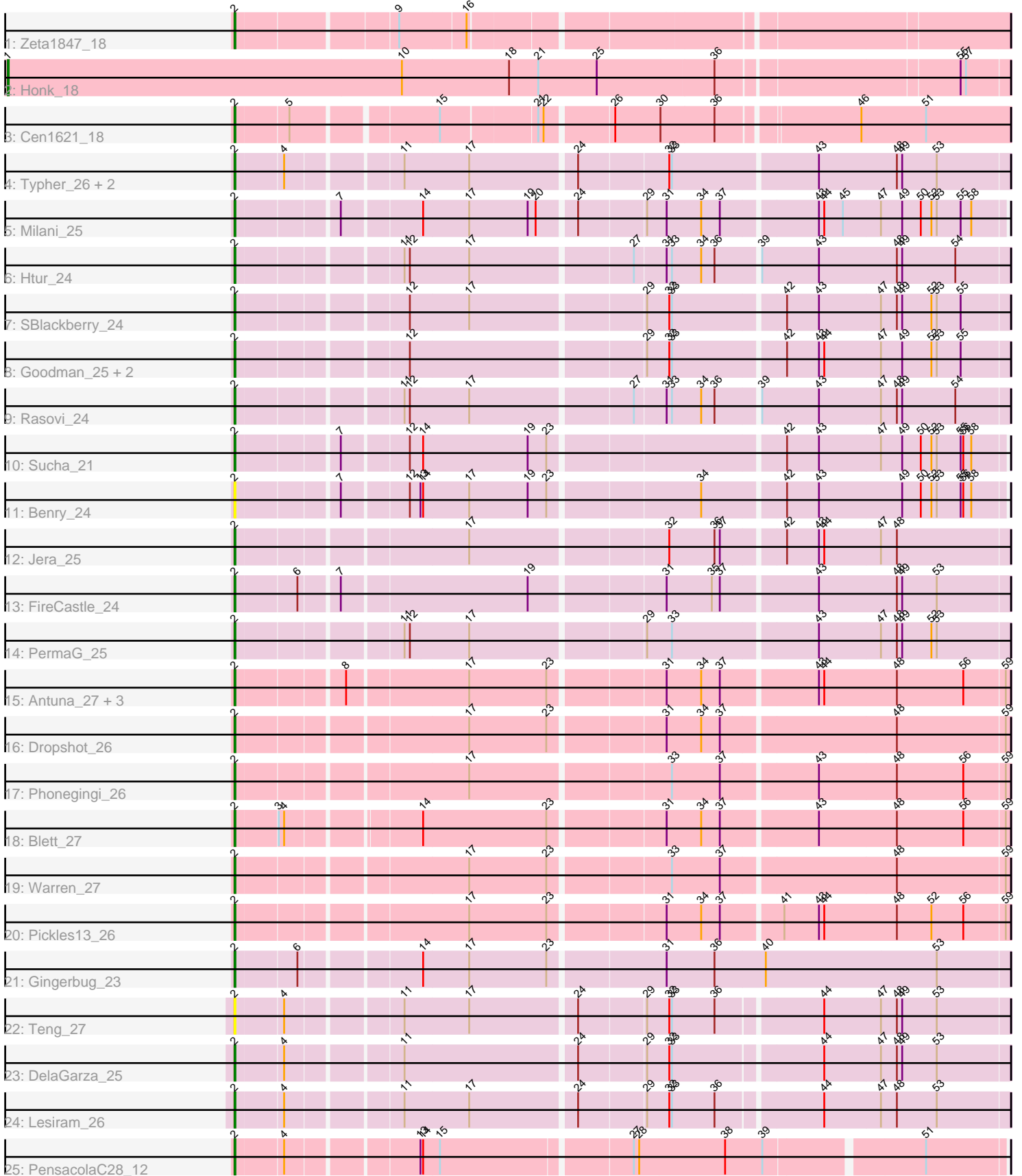


Pham 171661



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 171661 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171661 has 32 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Zeta1847_18
- Track 2 : Honk_18
- Track 3 : Cen1621_18
- Track 4 : Typher_26, Zanella_24, TurboVicky_24
- Track 5 : Milani_25
- Track 6 : Htur_24
- Track 7 : SBlackberry_24
- Track 8 : Goodman_25, Johann_25, Cicada_26
- Track 9 : Rasovi_24
- Track 10 : Sucha_21
- Track 11 : Benry_24
- Track 12 : Jera_25
- Track 13 : FireCastle_24
- Track 14 : PermaG_25
- Track 15 : Antuna_27, Appa_26, MenE_30, Bush_27
- Track 16 : Dropshot_26
- Track 17 : Phonegingi_26
- Track 18 : Blett_27
- Track 19 : Warren_27
- Track 20 : Pickles13_26
- Track 21 : Gingerbug_23
- Track 22 : Teng_27
- Track 23 : DelaGarza_25
- Track 24 : Lesiram_26
- Track 25 : PensacolaC28_12

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

The start number called the most often in the published annotations is 2, it was called in 28 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antuna_27, Appa_26, Benry_24, Blett_27, Bush_27, Cen1621_18, Cicada_26, DelaGarza_25, Dropshot_26, FireCastle_24, Gingerbug_23, Goodman_25, Htur_24,

Jera_25, Johann_25, Lesiram_26, MenE_30, Milani_25, PensacolaC28_12, PermaG_25, Phonegingi_26, Pickles13_26, Rasovi_24, SBlackberry_24, Sucha_21, Teng_27, TurboVicky_24, Typher_26, Warren_27, Zanella_24, Zeta1847_18,

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

-

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

- Honk_18,

Summary by start number:

Start 1:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Honk_18 (EH),

Start 2:

- Found in 31 of 32 (96.9%) of genes in pham
- Manual Annotations of this start: 28 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antuna_27 (GA), Appa_26 (GA), Benry_24 (EJ), Blett_27 (GA), Bush_27 (GA), Cen1621_18 (EH), Cicada_26 (EJ), DelaGarza_25 (GF), Dropshot_26 (GA), FireCastle_24 (EJ), Gingerbug_23 (GF), Goodman_25 (EJ), Htur_24 (EJ), Jera_25 (EJ), Johann_25 (EJ), Lesiram_26 (GF), MenE_30 (GA), Milani_25 (EJ), PensacolaC28_12 (singleton), PermaG_25 (EJ), Phonegingi_26 (GA), Pickles13_26 (GA), Rasovi_24 (EJ), SBlackberry_24 (EJ), Sucha_21 (EJ), Teng_27 (GF), TurboVicky_24 (EJ), Typher_26 (EJ), Warren_27 (GA), Zanella_24 (EJ), Zeta1847_18 (EH),

Summary by clusters:

There are 5 clusters represented in this pham: GF, singleton, EH, GA, EJ,

Info for manual annotations of cluster EH:

- Start number 1 was manually annotated 1 time for cluster EH.
- Start number 2 was manually annotated 2 times for cluster EH.

Info for manual annotations of cluster EJ:

- Start number 2 was manually annotated 14 times for cluster EJ.

Info for manual annotations of cluster GA:

- Start number 2 was manually annotated 8 times for cluster GA.

Info for manual annotations of cluster GF:

- Start number 2 was manually annotated 3 times for cluster GF.

Gene Information:

Gene: Antuna_27 Start: 17508, Stop: 18329, Start Num: 2

Candidate Starts for Antuna_27:

(Start: 2 @17508 has 28 MA's), (8, 17619), (17, 17748), (23, 17835), (31, 17955), (34, 17994), (37, 18015), (43, 18117), (44, 18123), (48, 18204), (56, 18279), (59, 18324),

Gene: Appa_26 Start: 17370, Stop: 18191, Start Num: 2

Candidate Starts for Appa_26:

(Start: 2 @17370 has 28 MA's), (8, 17481), (17, 17610), (23, 17697), (31, 17817), (34, 17856), (37, 17877), (43, 17979), (44, 17985), (48, 18066), (56, 18141), (59, 18186),

Gene: Benry_24 Start: 17906, Stop: 18721, Start Num: 2

Candidate Starts for Benry_24:

(Start: 2 @17906 has 28 MA's), (7, 18011), (12, 18080), (13, 18092), (14, 18095), (17, 18146), (19, 18212), (23, 18233), (34, 18392), (42, 18479), (43, 18515), (49, 18608), (50, 18629), (52, 18641), (53, 18647), (55, 18674), (56, 18677), (58, 18686),

Gene: Blett_27 Start: 17523, Stop: 18341, Start Num: 2

Candidate Starts for Blett_27:

(Start: 2 @17523 has 28 MA's), (3, 17568), (4, 17574), (14, 17709), (23, 17847), (31, 17967), (34, 18006), (37, 18027), (43, 18129), (48, 18216), (56, 18291), (59, 18336),

Gene: Bush_27 Start: 17498, Stop: 18319, Start Num: 2

Candidate Starts for Bush_27:

(Start: 2 @17498 has 28 MA's), (8, 17609), (17, 17738), (23, 17825), (31, 17945), (34, 17984), (37, 18005), (43, 18107), (44, 18113), (48, 18194), (56, 18269), (59, 18314),

Gene: Cen1621_18 Start: 15461, Stop: 16270, Start Num: 2

Candidate Starts for Cen1621_18:

(Start: 2 @15461 has 28 MA's), (5, 15518), (15, 15668), (21, 15770), (22, 15776), (26, 15845), (30, 15896), (36, 15956), (46, 16103), (51, 16175),

Gene: Cicada_26 Start: 19415, Stop: 20236, Start Num: 2

Candidate Starts for Cicada_26:

(Start: 2 @19415 has 28 MA's), (12, 19589), (29, 19841), (32, 19865), (33, 19868), (42, 19988), (43, 20024), (44, 20030), (47, 20093), (49, 20117), (52, 20150), (53, 20156), (55, 20183),

Gene: DelaGarza_25 Start: 17845, Stop: 18663, Start Num: 2

Candidate Starts for DelaGarza_25:

(Start: 2 @17845 has 28 MA's), (4, 17896), (11, 18013), (24, 18199), (29, 18271), (32, 18295), (33, 18298), (44, 18457), (47, 18520), (48, 18538), (49, 18544), (53, 18583),

Gene: Dropshot_26 Start: 17370, Stop: 18191, Start Num: 2

Candidate Starts for Dropshot_26:

(Start: 2 @17370 has 28 MA's), (17, 17610), (23, 17697), (31, 17817), (34, 17856), (37, 17877), (48, 18066), (59, 18186),

Gene: FireCastle_24 Start: 19486, Stop: 20307, Start Num: 2

Candidate Starts for FireCastle_24:

(Start: 2 @19486 has 28 MA's), (6, 19552), (7, 19591), (19, 19792), (31, 19933), (35, 19984), (37, 19993), (43, 20095), (48, 20182), (49, 20188), (53, 20227),

Gene: Gingerbug_23 Start: 17888, Stop: 18721, Start Num: 2

Candidate Starts for Gingerbug_23:

(Start: 2 @17888 has 28 MA's), (6, 17954), (14, 18077), (17, 18128), (23, 18215), (31, 18338), (36, 18392), (40, 18449), (53, 18641),

Gene: Goodman_25 Start: 19328, Stop: 20149, Start Num: 2

Candidate Starts for Goodman_25:

(Start: 2 @19328 has 28 MA's), (12, 19502), (29, 19754), (32, 19778), (33, 19781), (42, 19901), (43, 19937), (44, 19943), (47, 20006), (49, 20030), (52, 20063), (53, 20069), (55, 20096),

Gene: Honk_18 Start: 15028, Stop: 16131, Start Num: 1

Candidate Starts for Honk_18:

(Start: 1 @15028 has 1 MA's), (10, 15472), (18, 15592), (21, 15625), (25, 15691), (36, 15820), (55, 16078), (57, 16084),

Gene: Htur_24 Start: 19383, Stop: 20204, Start Num: 2

Candidate Starts for Htur_24:

(Start: 2 @19383 has 28 MA's), (11, 19551), (12, 19557), (17, 19623), (27, 19797), (31, 19830), (33, 19836), (34, 19869), (36, 19884), (39, 19929), (43, 19992), (48, 20079), (49, 20085), (54, 20145),

Gene: Jera_25 Start: 18440, Stop: 19261, Start Num: 2

Candidate Starts for Jera_25:

(Start: 2 @18440 has 28 MA's), (17, 18680), (32, 18890), (36, 18941), (37, 18947), (42, 19013), (43, 19049), (44, 19055), (47, 19118), (48, 19136),

Gene: Johann_25 Start: 19328, Stop: 20149, Start Num: 2

Candidate Starts for Johann_25:

(Start: 2 @19328 has 28 MA's), (12, 19502), (29, 19754), (32, 19778), (33, 19781), (42, 19901), (43, 19937), (44, 19943), (47, 20006), (49, 20030), (52, 20063), (53, 20069), (55, 20096),

Gene: Lesiram_26 Start: 17814, Stop: 18632, Start Num: 2

Candidate Starts for Lesiram_26:

(Start: 2 @17814 has 28 MA's), (4, 17865), (11, 17982), (17, 18054), (24, 18168), (29, 18240), (32, 18264), (33, 18267), (36, 18315), (44, 18426), (47, 18489), (48, 18507), (53, 18552),

Gene: MenE_30 Start: 17638, Stop: 18459, Start Num: 2

Candidate Starts for MenE_30:

(Start: 2 @17638 has 28 MA's), (8, 17749), (17, 17878), (23, 17965), (31, 18085), (34, 18124), (37, 18145), (43, 18247), (44, 18253), (48, 18334), (56, 18409), (59, 18454),

Gene: Milani_25 Start: 18546, Stop: 19361, Start Num: 2

Candidate Starts for Milani_25:

(Start: 2 @18546 has 28 MA's), (7, 18651), (14, 18735), (17, 18786), (19, 18852), (20, 18861), (24, 18900), (29, 18972), (31, 18993), (34, 19032), (37, 19053), (43, 19155), (44, 19161), (45, 19182), (47, 19224), (49, 19248), (50, 19269), (52, 19281), (53, 19287), (55, 19314), (58, 19326),

Gene: PensacolaC28_12 Start: 10504, Stop: 11313, Start Num: 2

Candidate Starts for PensacolaC28_12:

(Start: 2 @10504 has 28 MA's), (4, 10555), (13, 10690), (14, 10693), (15, 10711), (27, 10915), (28, 10921), (38, 11017), (39, 11059), (51, 11227),

Gene: PermaG_25 Start: 19393, Stop: 20214, Start Num: 2

Candidate Starts for PermaG_25:

(Start: 2 @19393 has 28 MA's), (11, 19561), (12, 19567), (17, 19633), (29, 19819), (33, 19846), (43, 20002), (47, 20071), (48, 20089), (49, 20095), (52, 20128), (53, 20134),

Gene: Phonegingi_26 Start: 17413, Stop: 18234, Start Num: 2

Candidate Starts for Phonegingi_26:

(Start: 2 @17413 has 28 MA's), (17, 17653), (33, 17866), (37, 17920), (43, 18022), (48, 18109), (56, 18184), (59, 18229),

Gene: Pickles13_26 Start: 17801, Stop: 18622, Start Num: 2

Candidate Starts for Pickles13_26:

(Start: 2 @17801 has 28 MA's), (17, 18041), (23, 18128), (31, 18248), (34, 18287), (37, 18308), (41, 18371), (43, 18410), (44, 18416), (48, 18497), (52, 18536), (56, 18572), (59, 18617),

Gene: Rasovi_24 Start: 19383, Stop: 20204, Start Num: 2

Candidate Starts for Rasovi_24:

(Start: 2 @19383 has 28 MA's), (11, 19551), (12, 19557), (17, 19623), (27, 19797), (31, 19830), (33, 19836), (34, 19869), (36, 19884), (39, 19929), (43, 19992), (47, 20061), (48, 20079), (49, 20085), (54, 20145),

Gene: SBlackberry_24 Start: 19193, Stop: 20014, Start Num: 2

Candidate Starts for SBlackberry_24:

(Start: 2 @19193 has 28 MA's), (12, 19367), (17, 19433), (29, 19619), (32, 19643), (33, 19646), (42, 19766), (43, 19802), (47, 19871), (48, 19889), (49, 19895), (52, 19928), (53, 19934), (55, 19961),

Gene: Sucha_21 Start: 16903, Stop: 17718, Start Num: 2

Candidate Starts for Sucha_21:

(Start: 2 @16903 has 28 MA's), (7, 17008), (12, 17077), (14, 17092), (19, 17209), (23, 17230), (42, 17476), (43, 17512), (47, 17581), (49, 17605), (50, 17626), (52, 17638), (53, 17644), (55, 17671), (56, 17674), (58, 17683),

Gene: Teng_27 Start: 17864, Stop: 18682, Start Num: 2

Candidate Starts for Teng_27:

(Start: 2 @17864 has 28 MA's), (4, 17915), (11, 18032), (17, 18104), (24, 18218), (29, 18290), (32, 18314), (33, 18317), (36, 18365), (44, 18476), (47, 18539), (48, 18557), (49, 18563), (53, 18602),

Gene: TurboVicky_24 Start: 19192, Stop: 20013, Start Num: 2

Candidate Starts for TurboVicky_24:

(Start: 2 @19192 has 28 MA's), (4, 19243), (11, 19360), (17, 19432), (24, 19546), (32, 19642), (33, 19645), (43, 19801), (48, 19888), (49, 19894), (53, 19933),

Gene: Typher_26 Start: 19321, Stop: 20142, Start Num: 2

Candidate Starts for Typher_26:

(Start: 2 @19321 has 28 MA's), (4, 19372), (11, 19489), (17, 19561), (24, 19675), (32, 19771), (33, 19774), (43, 19930), (48, 20017), (49, 20023), (53, 20062),

Gene: Warren_27 Start: 17574, Stop: 18395, Start Num: 2

Candidate Starts for Warren_27:

(Start: 2 @17574 has 28 MA's), (17, 17814), (23, 17901), (33, 18027), (37, 18081), (48, 18270), (59, 18390),

Gene: Zanella_24 Start: 19195, Stop: 20016, Start Num: 2

Candidate Starts for Zanella_24:

(Start: 2 @19195 has 28 MA's), (4, 19246), (11, 19363), (17, 19435), (24, 19549), (32, 19645), (33, 19648), (43, 19804), (48, 19891), (49, 19897), (53, 19936),

Gene: Zeta1847_18 Start: 16881, Stop: 17684, Start Num: 2
Candidate Starts for Zeta1847_18:
(Start: 2 @16881 has 28 MA's), (9, 17049), (16, 17121),