Pham 342590


1: ZamZam_31
2: Pavo_32 + 1
3: SunkenRoot_31
4: Verabelle_33
5: Alsaber_32 + 3
6: Vanseggelen_36
7: Jhitchelle_30
8: Speedwell_36
9: Saftant_31
10: Verse_31 + 1
11: Yosif_33
12: Celery_34
13: Dexers_30 + 1

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 342590 Report

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

Pham number 342590 has 19 members, 3 are drafts.

Phages represented in each track:
• Track 1 : ZamZam_31
• Track 2 : Pavo_32, Conan_32
• Track 3 : SunkenRoot_31
• Track 4 : Verabelle_33
• Track 5 : Alsaber_32, Sudan_31, Kaine_31, ElGato_32
• Track 6 : Vanseggelen_36
• Track 7 : Jhitchelle_30
• Track 8 : Speedwell_36
• Track 9 : Saftant_31
• Track 10 : Verse_31, Amela_31
• Track 11 : Yosif_33
• Track 12 : Celery_34
• Track 13 : Dexers_30, Provolone_32

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

The start number called the most often in the published annotations is 21, it was called in 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alsaber_32, Amela_31, Celery_34, Conan_32, Dexers_30, ElGato_32, Jhitchelle_30, Kaine_31, Pavo_32, Provolone_32, Saftant_31, Speedwell_36, Sudan_31, SunkenRoot_31, Vanseggelen_36, Verabelle_33, Verse_31, ZamZam_31,

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:
• Yosif_33,

Summary by start number:

Start 19:

• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yosif_33 (BD3),

Start 21:
• Found in 18 of 19 (94.7%) of genes in pham
• Manual Annotations of this start: 15 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alsaber_32 (BD3), Amela_31 (BD3), Celery_34 (BD3), Conan_32 (BD3), Dexers_30 (BD3), ElGato_32 (BD3), Jhitchelle_30 (BD3), Kaine_31 (BD3), Pavo_32 (BD3), Provolone_32 (BD3), Saftant_31 (BD3), Speedwell_36 (BD3), Sudan_31 (BD3), SunkenRoot_31 (BD3), Vanseggelen_36 (BD3), Verabelle_33 (BD3), Verse_31 (BD3), ZamZam_31 (BD3),

Summary by clusters:

There is one cluster represented in this pham: BD3

Info for manual annotations of cluster BD3:
•Start number 19 was manually annotated 1 time for cluster BD3.
•Start number 21 was manually annotated 15 times for cluster BD3.

Gene Information:

Gene: Alsaber_32 Start: 25015, Stop: 25443, Start Num: 21
Candidate Starts for Alsaber_32:
(Start: 21 @25015 has 15 MA's), (26, 25162), (27, 25165), (31, 25210), (38, 25279), (40, 25291), (42, 25306), (44, 25330), (47, 25354), (48, 25366),

Gene: Amela_31 Start: 25848, Stop: 26276, Start Num: 21
Candidate Starts for Amela_31:
(7, 25728), (8, 25755), (13, 25782), (14, 25785), (18, 25818), (Start: 21 @25848 has 15 MA's), (24, 25875), (27, 25998), (28, 26007), (29, 26010), (30, 26034), (31, 26043), (32, 26064), (38, 26112), (40, 26124), (42, 26139), (44, 26163), (45, 26178), (46, 26187), (48, 26199),

Gene: Celery_34 Start: 24947, Stop: 25378, Start Num: 21
Candidate Starts for Celery_34:
(5, 24800), (15, 24893), (Start: 21 @24947 has 15 MA's), (24, 24974), (25, 25043), (27, 25097), (28, 25106), (31, 25142), (32, 25163), (34, 25169), (38, 25211), (40, 25223), (42, 25238), (44, 25262), (45, 25277),

Gene: Conan_32 Start: 24911, Stop: 25339, Start Num: 21
Candidate Starts for Conan_32:
(1, 24719), (3, 24752), (4, 24755), (10, 24827), (Start: 21 @24911 has 15 MA's), (26, 25058), (27, 25061), (31, 25106), (38, 25175), (40, 25187), (42, 25202), (44, 25226), (47, 25250), (48, 25262),

Gene: Dexers_30 Start: 24937, Stop: 25365, Start Num: 21
Candidate Starts for Dexers_30:
(7, 24814), (9, 24850), (10, 24853), (Start: 21 @24937 has 15 MA's), (26, 25084), (27, 25087), (31, 25132), (38, 25201), (40, 25213), (42, 25228), (44, 25252), (47, 25276), (48, 25288),

Gene: ElGato_32 Start: 24575, Stop: 25003, Start Num: 21
Candidate Starts for ElGato_32:
(Start: 21 @24575 has 15 MA's), (26, 24722), (27, 24725), (31, 24770), (38, 24839), (40, 24851), (42, 24866), (44, 24890), (47, 24914), (48, 24926),

Gene: Jhitchelle_30 Start: 24461, Stop: 24892, Start Num: 21
Candidate Starts for Jhitchelle_30:
(10, 24374), (14, 24401), (18, 24428), (Start: 21 @24461 has 15 MA's), (22, 24479), (23, 24485), (24, 24488), (27, 24611), (31, 24656), (32, 24677), (34, 24683), (35, 24686), (38, 24725), (40, 24737), (42, 24752), (44, 24776), (45, 24791),

Gene: Kaine_31 Start: 24724, Stop: 25152, Start Num: 21
Candidate Starts for Kaine_31:
(Start: 21 @24724 has 15 MA's), (26, 24871), (27, 24874), (31, 24919), (38, 24988), (40, 25000), (42, 25015), (44, 25039), (47, 25063), (48, 25075),

Gene: Pavo_32 Start: 25184, Stop: 25612, Start Num: 21
Candidate Starts for Pavo_32:
(1, 24992), (3, 25025), (4, 25028), (10, 25100), (Start: 21 @25184 has 15 MA's), (26, 25331), (27, 25334), (31, 25379), (38, 25448), (40, 25460), (42, 25475), (44, 25499), (47, 25523), (48, 25535),

Gene: Provolone_32 Start: 24566, Stop: 24994, Start Num: 21
Candidate Starts for Provolone_32:
(7, 24443), (9, 24479), (10, 24482), (Start: 21 @24566 has 15 MA's), (26, 24713), (27, 24716), (31, 24761), (38, 24830), (40, 24842), (42, 24857), (44, 24881), (47, 24905), (48, 24917),

Gene: Saftant_31 Start: 25130, Stop: 25558, Start Num: 21
Candidate Starts for Saftant_31:
(Start: 21 @25130 has 15 MA's), (24, 25157), (25, 25226), (27, 25280), (28, 25289), (31, 25325), (32, 25346), (34, 25352), (38, 25394), (40, 25406), (42, 25421), (45, 25460), (46, 25469),

Gene: Speedwell_36 Start: 26449, Stop: 26880, Start Num: 21
Candidate Starts for Speedwell_36:
(2, 26275), (6, 26290), (16, 26401), (Start: 21 @26449 has 15 MA's), (27, 26599), (37, 26701), (40, 26725), (41, 26728), (46, 26788), (48, 26803),

Gene: Sudan_31 Start: 25011, Stop: 25439, Start Num: 21
Candidate Starts for Sudan_31:
(Start: 21 @25011 has 15 MA's), (26, 25158), (27, 25161), (31, 25206), (38, 25275), (40, 25287), (42, 25302), (44, 25326), (47, 25350), (48, 25362),

Gene: SunkenRoot_31 Start: 25648, Stop: 26076, Start Num: 21
Candidate Starts for SunkenRoot_31:
(8, 25555), (13, 25582), (14, 25585), (18, 25618), (Start: 21 @25648 has 15 MA's), (24, 25675), (27, 25798), (28, 25807), (29, 25810), (31, 25843), (32, 25864), (38, 25912), (40, 25924), (42, 25939), (44, 25963), (45, 25978), (46, 25987), (48, 25999),

Gene: Vanseggelen_36 Start: 24694, Stop: 25125, Start Num: 21
Candidate Starts for Vanseggelen_36:
(Start: 21 @24694 has 15 MA's), (25, 24790), (27, 24844), (31, 24889), (33, 24913), (42, 24988),

Gene: Verabelle_33 Start: 25098, Stop: 25529, Start Num: 21

Candidate Starts for Verabelle_33:
(7, 24981), (8, 25008), (12, 25026), (14, 25038), (17, 25059), (Start: 21 @25098 has 15 MA's), (24, 25125), (25, 25194), (27, 25248), (28, 25257), (29, 25260), (31, 25293), (32, 25314), (34, 25320), (38, 25362), (40, 25374), (42, 25389), (44, 25413), (45, 25428),

Gene: Verse_31 Start: 25842, Stop: 26270, Start Num: 21
Candidate Starts for Verse_31:
(7, 25722), (8, 25749), (13, 25776), (14, 25779), (18, 25812), (Start: 21 @25842 has 15 MA's), (24, 25869), (27, 25992), (28, 26001), (29, 26004), (30, 26028), (31, 26037), (32, 26058), (38, 26106), (40, 26118), (42, 26133), (44, 26157), (45, 26172), (46, 26181), (48, 26193),

Gene: Yosif_33 Start: 25462, Stop: 25962, Start Num: 19
Candidate Starts for Yosif_33:
(14, 25414), (Start: 19 @25462 has 1 MA's), (20, 25465), (27, 25624), (31, 25669), (39, 25744), (43, 25768), (49, 25873), (50, 25879), (51, 25942), (52, 25957),

Gene: ZamZam_31 Start: 25123, Stop: 25551, Start Num: 21
Candidate Starts for ZamZam_31:
(6, 24982), (7, 25009), (11, 25051), (16, 25078), (Start: 21 @25123 has 15 MA's), (25, 25219), (27, 25273), (31, 25318), (36, 25360), (42, 25414),