# Pham 347837


11
17
18
1: Pound_76
8
10
13
14
18
19
20
21
2: Murai_95 + 29
8
10
13
14
18
19
20
21
3: Blessica_95 + 2
1
2
3
4
5
6
7
9
11
12
15
16
20
4: PeanutPie_58 + 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 347837 Report

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

Pham number 347837 has 36 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Pound_76
• Track 2 : Murai_95, FoulBall_94, Zebo_93, Vagabond_94, Smooch_96, Shida_94, Krili_94, Wildflower_95, Schuy_95, Wogge42_94, Catdawg_94, Mori_94, JangDynasty_93, YoyoKar_91, Alkhayr_94, Idergollasper_94, TelAviv_91, Dylan_93, Winget_95, KingPhillip3_93, Vorrps_94, Firecracker_98, Corndog_94, Zakhe101_93, Bora_92, Imara_94, YungJamal_95, Ashwin_95, MadKillah_96, NiebruSaylor_94
• Track 3 : Blessica_95, SchoolBus_93, Familton_95
• Track 4 : PeanutPie_58, Bhagsy_58

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

The start number called the most often in the published annotations is 8, it was called in 31 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alkhayr_94, Ashwin_95, Blessica_95, Bora_92, Catdawg_94, Corndog_94, Dylan_93, Familton_95, Firecracker_98, FoulBall_94, Idergollasper_94, Imara_94, JangDynasty_93, KingPhillip3_93, Krili_94, MadKillah_96, Mori_94, Murai_95, NiebruSaylor_94, SchoolBus_93, Schuy_95, Shida_94, Smooch_96, TelAviv_91, Vagabond_94, Vorrps_94, Wildflower_95, Winget_95, Wogge42_94, YoyoKar_91, YungJamal_95, Zakhe101_93, Zebo_93,

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

Genes that do not have the "Most Annotated" start:
• Bhagsy_58, PeanutPie_58, Pound_76,

**Summary by start number:**

Start 7:
• Found in 2 of 36 ( 5.6% ) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Bhagsy_58 (P1), PeanutPie_58 (P1),

Start 8:
• Found in 33 of 36 ( 91.7% ) of genes in pham
• Manual Annotations of this start: 31 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alkhayr_94 (O), Ashwin_95 (O), Blessica_95 (O), Bora_92 (O), Catdawg_94 (O), Corndog_94 (O), Dylan_93 (O), Familton_95 (O), Firecracker_98 (O), FoulBall_94 (O), Idergollasper_94 (O), Imara_94 (O), JangDynasty_93 (O), KingPhillip3_93 (O), Krili_94 (O), MadKillah_96 (O), Mori_94 (O), Murai_95 (O), NiebruSaylor_94 (O), SchoolBus_93 (O), Schuy_95 (O), Shida_94 (O), Smooch_96 (O), TelAviv_91 (O), Vagabond_94 (O), Vorrps_94 (O), Wildflower_95 (O), Winget_95 (O), Wogge42_94 (O), YoyoKar_91 (O), YungJamal_95 (O), Zakhe101_93 (O), Zebo_93 (O),

Start 11:
• Found in 3 of 36 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 33
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Pound_76 (J),

**Summary by clusters:**

There are 3 clusters represented in this pham: J, P1, O,

Info for manual annotations of cluster J:
•Start number 11 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster O:
•Start number 8 was manually annotated 31 times for cluster O.

Info for manual annotations of cluster P1:
•Start number 7 was manually annotated 1 time for cluster P1.

***Gene Information:***

Gene: Alkhayr_94 Start: 57681, Stop: 57409, Start Num: 8
Candidate Starts for Alkhayr_94:
(Start: 8 @57681 has 31 MA's), (10, 57669), (13, 57645), (14, 57642), (18, 57555), (19, 57492), (20, 57441), (21, 57414),

Gene: Ashwin_95 Start: 58202, Stop: 57930, Start Num: 8
Candidate Starts for Ashwin_95:
(Start: 8 @58202 has 31 MA's), (10, 58190), (13, 58166), (14, 58163), (18, 58076), (19, 58013), (20, 57962), (21, 57935),

Gene: Bhagsy_58 Start: 38100, Stop: 38384, Start Num: 7
Candidate Starts for Bhagsy_58:
(1, 37764), (2, 37797), (3, 37821), (4, 37827), (5, 37968), (6, 38025), (Start: 7 @38100 has 1 MA's), (9, 38115), (Start: 11 @38142 has 1 MA's), (12, 38148), (15, 38193), (16, 38205), (20, 38361),

Gene: Blessica_95 Start: 58487, Stop: 58215, Start Num: 8
Candidate Starts for Blessica_95:
(Start: 8 @58487 has 31 MA's), (10, 58475), (13, 58451), (14, 58448), (18, 58361), (19, 58298), (20, 58247), (21, 58220),

Gene: Bora_92 Start: 58010, Stop: 57738, Start Num: 8
Candidate Starts for Bora_92:
(Start: 8 @58010 has 31 MA's), (10, 57998), (13, 57974), (14, 57971), (18, 57884), (19, 57821), (20, 57770), (21, 57743),

Gene: Catdawg_94 Start: 58223, Stop: 57951, Start Num: 8
Candidate Starts for Catdawg_94:
(Start: 8 @58223 has 31 MA's), (10, 58211), (13, 58187), (14, 58184), (18, 58097), (19, 58034), (20, 57983), (21, 57956),

Gene: Corndog_94 Start: 57469, Stop: 57197, Start Num: 8
Candidate Starts for Corndog_94:
(Start: 8 @57469 has 31 MA's), (10, 57457), (13, 57433), (14, 57430), (18, 57343), (19, 57280), (20, 57229), (21, 57202),

Gene: Dylan_93 Start: 57935, Stop: 57663, Start Num: 8
Candidate Starts for Dylan_93:
(Start: 8 @57935 has 31 MA's), (10, 57923), (13, 57899), (14, 57896), (18, 57809), (19, 57746), (20, 57695), (21, 57668),

Gene: Familton_95 Start: 58180, Stop: 57908, Start Num: 8
Candidate Starts for Familton_95:
(Start: 8 @58180 has 31 MA's), (10, 58168), (13, 58144), (14, 58141), (18, 58054), (19, 57991), (20, 57940), (21, 57913),

Gene: Firecracker_98 Start: 59573, Stop: 59301, Start Num: 8
Candidate Starts for Firecracker_98:
(Start: 8 @59573 has 31 MA's), (10, 59561), (13, 59537), (14, 59534), (18, 59447), (19, 59384), (20, 59333), (21, 59306),

Gene: FoulBall_94 Start: 57964, Stop: 57692, Start Num: 8
Candidate Starts for FoulBall_94:
(Start: 8 @57964 has 31 MA's), (10, 57952), (13, 57928), (14, 57925), (18, 57838), (19, 57775), (20, 57724), (21, 57697),

Gene: Idergollasper_94 Start: 58174, Stop: 57902, Start Num: 8
Candidate Starts for Idergollasper_94:
(Start: 8 @58174 has 31 MA's), (10, 58162), (13, 58138), (14, 58135), (18, 58048), (19, 57985), (20, 57934), (21, 57907),

Gene: Imara_94 Start: 57767, Stop: 57495, Start Num: 8
Candidate Starts for Imara_94:
(Start: 8 @57767 has 31 MA's), (10, 57755), (13, 57731), (14, 57728), (18, 57641), (19, 57578), (20, 57527), (21, 57500),

Gene: JangDynasty_93 Start: 57983, Stop: 57711, Start Num: 8
Candidate Starts for JangDynasty_93:

(Start: 8 @57983 has 31 MA's), (10, 57971), (13, 57947), (14, 57944), (18, 57857), (19, 57794), (20, 57743), (21, 57716),

Gene: KingPhillip3_93 Start: 57931, Stop: 57659, Start Num: 8
Candidate Starts for KingPhillip3_93:
(Start: 8 @57931 has 31 MA's), (10, 57919), (13, 57895), (14, 57892), (18, 57805), (19, 57742), (20, 57691), (21, 57664),

Gene: Krili_94 Start: 57732, Stop: 57460, Start Num: 8
Candidate Starts for Krili_94:
(Start: 8 @57732 has 31 MA's), (10, 57720), (13, 57696), (14, 57693), (18, 57606), (19, 57543), (20, 57492), (21, 57465),

Gene: MadKillah_96 Start: 58001, Stop: 57729, Start Num: 8
Candidate Starts for MadKillah_96:
(Start: 8 @58001 has 31 MA's), (10, 57989), (13, 57965), (14, 57962), (18, 57875), (19, 57812), (20, 57761), (21, 57734),

Gene: Mori_94 Start: 58260, Stop: 57988, Start Num: 8
Candidate Starts for Mori_94:
(Start: 8 @58260 has 31 MA's), (10, 58248), (13, 58224), (14, 58221), (18, 58134), (19, 58071), (20, 58020), (21, 57993),

Gene: Murai_95 Start: 58393, Stop: 58121, Start Num: 8
Candidate Starts for Murai_95:
(Start: 8 @58393 has 31 MA's), (10, 58381), (13, 58357), (14, 58354), (18, 58267), (19, 58204), (20, 58153), (21, 58126),

Gene: NiebruSaylor_94 Start: 57654, Stop: 57382, Start Num: 8
Candidate Starts for NiebruSaylor_94:
(Start: 8 @57654 has 31 MA's), (10, 57642), (13, 57618), (14, 57615), (18, 57528), (19, 57465), (20, 57414), (21, 57387),

Gene: PeanutPie_58 Start: 38103, Stop: 38387, Start Num: 7
Candidate Starts for PeanutPie_58:
(1, 37767), (2, 37800), (3, 37824), (4, 37830), (5, 37971), (6, 38028), (Start: 7 @38103 has 1 MA's), (9, 38118), (Start: 11 @38145 has 1 MA's), (12, 38151), (15, 38196), (16, 38208), (20, 38364),

Gene: Pound_76 Start: 53125, Stop: 52898, Start Num: 11
Candidate Starts for Pound_76:
(Start: 11 @53125 has 1 MA's), (17, 53056), (18, 53017),

Gene: SchoolBus_93 Start: 57900, Stop: 57628, Start Num: 8
Candidate Starts for SchoolBus_93:
(Start: 8 @57900 has 31 MA's), (10, 57888), (13, 57864), (14, 57861), (18, 57774), (19, 57711), (20, 57660), (21, 57633),

Gene: Schuy_95 Start: 57749, Stop: 57477, Start Num: 8
Candidate Starts for Schuy_95:
(Start: 8 @57749 has 31 MA's), (10, 57737), (13, 57713), (14, 57710), (18, 57623), (19, 57560), (20, 57509), (21, 57482),

Gene: Shida_94 Start: 57844, Stop: 57572, Start Num: 8

Candidate Starts for Shida_94:
(Start: 8 @57844 has 31 MA's), (10, 57832), (13, 57808), (14, 57805), (18, 57718), (19, 57655), (20, 57604), (21, 57577),

Gene: Smooch_96 Start: 59418, Stop: 59146, Start Num: 8
Candidate Starts for Smooch_96:
(Start: 8 @59418 has 31 MA's), (10, 59406), (13, 59382), (14, 59379), (18, 59292), (19, 59229), (20, 59178), (21, 59151),

Gene: TelAviv_91 Start: 58138, Stop: 57866, Start Num: 8
Candidate Starts for TelAviv_91:
(Start: 8 @58138 has 31 MA's), (10, 58126), (13, 58102), (14, 58099), (18, 58012), (19, 57949), (20, 57898), (21, 57871),

Gene: Vagabond_94 Start: 57797, Stop: 57525, Start Num: 8
Candidate Starts for Vagabond_94:
(Start: 8 @57797 has 31 MA's), (10, 57785), (13, 57761), (14, 57758), (18, 57671), (19, 57608), (20, 57557), (21, 57530),

Gene: Vorrps_94 Start: 58261, Stop: 57989, Start Num: 8
Candidate Starts for Vorrps_94:
(Start: 8 @58261 has 31 MA's), (10, 58249), (13, 58225), (14, 58222), (18, 58135), (19, 58072), (20, 58021), (21, 57994),

Gene: Wildflower_95 Start: 57834, Stop: 57562, Start Num: 8
Candidate Starts for Wildflower_95:
(Start: 8 @57834 has 31 MA's), (10, 57822), (13, 57798), (14, 57795), (18, 57708), (19, 57645), (20, 57594), (21, 57567),

Gene: Winget_95 Start: 58434, Stop: 58162, Start Num: 8
Candidate Starts for Winget_95:
(Start: 8 @58434 has 31 MA's), (10, 58422), (13, 58398), (14, 58395), (18, 58308), (19, 58245), (20, 58194), (21, 58167),

Gene: Wogge42_94 Start: 57926, Stop: 57654, Start Num: 8
Candidate Starts for Wogge42_94:
(Start: 8 @57926 has 31 MA's), (10, 57914), (13, 57890), (14, 57887), (18, 57800), (19, 57737), (20, 57686), (21, 57659),

Gene: YoyoKar_91 Start: 57462, Stop: 57190, Start Num: 8
Candidate Starts for YoyoKar_91:
(Start: 8 @57462 has 31 MA's), (10, 57450), (13, 57426), (14, 57423), (18, 57336), (19, 57273), (20, 57222), (21, 57195),

Gene: YungJamal_95 Start: 58239, Stop: 57967, Start Num: 8
Candidate Starts for YungJamal_95:
(Start: 8 @58239 has 31 MA's), (10, 58227), (13, 58203), (14, 58200), (18, 58113), (19, 58050), (20, 57999), (21, 57972),

Gene: Zakhe101_93 Start: 57939, Stop: 57667, Start Num: 8
Candidate Starts for Zakhe101_93:
(Start: 8 @57939 has 31 MA's), (10, 57927), (13, 57903), (14, 57900), (18, 57813), (19, 57750), (20, 57699), (21, 57672),

Gene: Zebo_93 Start: 57909, Stop: 57637, Start Num: 8
Candidate Starts for Zebo_93:
(Start: 8 @57909 has 31 MA's), (10, 57897), (13, 57873), (14, 57870), (18, 57783), (19, 57720), (20, 57669), (21, 57642),