Pham 293003


1: Alkhayr_114 + 10
2: KingPhillip3_110 + 8
3: YoyoKar_111 + 3
4: Wildflower_110 + 1
5: Zakhe101_110 + 1
6: Wogge42_110 + 2
7: Corndog_110
8: Ryadel_119
9: Firecracker_114

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 293003 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293003 has 34 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Alkhayr_114, Murai_114, FoulBall_113, Smooch_112, Catdawg_115, Schuy_114, MadKillah_117, Imara_110, Vagabond_113, Winget_114, YungJamal_111
• Track 2 : KingPhillip3_110, Blessica_114, SchoolBus_115, Idergollasper_118, NiebruSaylor_114, JangDynasty_112, Shida_114, TelAviv_111, Familton_116
• Track 3 : YoyoKar_111, Krili_116, Vorrps_114, Mori_114
• Track 4 : Wildflower_110, Ashwin_110
• Track 5 : Zakhe101_110, Bora_111
• Track 6 : Wogge42_110, Dylan_108, Zebo_113
• Track 7 : Corndog_110
• Track 8 : Ryadel_119
• Track 9 : Firecracker_114

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

The start number called the most often in the published annotations is 20, it was called in 28 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alkhayr_114, Blessica_114, Bora_111, Catdawg_115, Corndog_110, Dylan_108, Familton_116, Firecracker_114, FoulBall_113, Idergollasper_118, Imara_110, JangDynasty_112, KingPhillip3_110, Krili_116, MadKillah_117, Mori_114, Murai_114, NiebruSaylor_114, Ryadel_119, SchoolBus_115, Schuy_114, Shida_114, Smooch_112, TelAviv_111, Vagabond_113, Vorrps_114, Winget_114, Wogge42_110, YoyoKar_111, YungJamal_111, Zakhe101_110, Zebo_113,

Genes that have the "Most Annotated" start but do not call it:
• Ashwin_110, Wildflower_110,

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

Summary by start number:

Start 17:
• Found in 2 of 34 (5.9%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashwin_110 (O), Wildflower_110 (O),

Start 20:
• Found in 34 of 34 (100.0%) of genes in pham
• Manual Annotations of this start: 28 of 30
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Alkhayr_114 (O), Blessica_114 (O), Bora_111 (O), Catdawg_115 (O), Corndog_110 (O), Dylan_108 (O), Familton_116 (O), Firecracker_114 (O), FoulBall_113 (O), Idergollasper_118 (O), Imara_110 (O), JangDynasty_112 (O), KingPhillip3_110 (O), Krili_116 (O), MadKillah_117 (O), Mori_114 (O), Murai_114 (O), NiebruSaylor_114 (O), Ryadel_119 (O), SchoolBus_115 (O), Schuy_114 (O), Shida_114 (O), Smooch_112 (O), TelAviv_111 (O), Vagabond_113 (O), Vorrps_114 (O), Winget_114 (O), Wogge42_110 (O), YoyoKar_111 (O), YungJamal_111 (O), Zakhe101_110 (O), Zebo_113 (O),

Summary by clusters:

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:
•Start number 17 was manually annotated 2 times for cluster O.
•Start number 20 was manually annotated 28 times for cluster O.

Gene Information:

Gene: Alkhayr_114 Start: 66256, Stop: 65741, Start Num: 20
Candidate Starts for Alkhayr_114:
(Start: 20 @66256 has 28 MA's), (21, 66220), (22, 66211), (23, 66208), (24, 66202), (25, 66172), (26, 66145), (27, 66136), (29, 66028), (30, 65974), (32, 65851), (33, 65848), (34, 65830), (35, 65809), (37, 65767),

Gene: Ashwin_110 Start: 65410, Stop: 64736, Start Num: 17
Candidate Starts for Ashwin_110:
(Start: 17 @65410 has 2 MA's), (Start: 20 @65302 has 28 MA's), (21, 65266), (22, 65257), (23, 65254), (25, 65218), (26, 65191), (27, 65182), (28, 65077), (30, 64969), (32, 64846), (33, 64843), (34, 64825), (35, 64804), (37, 64762),

Gene: Blessica_114 Start: 66987, Stop: 66472, Start Num: 20
Candidate Starts for Blessica_114:
(Start: 20 @66987 has 28 MA's), (21, 66951), (22, 66942), (23, 66939), (25, 66903), (26, 66876), (27, 66867), (29, 66759), (30, 66705), (31, 66615), (32, 66582), (33, 66579), (34, 66561), (35, 66540), (37, 66498),

Gene: Bora_111 Start: 66940, Stop: 66425, Start Num: 20
Candidate Starts for Bora_111:
(Start: 20 @66940 has 28 MA's), (21, 66904), (22, 66895), (23, 66892), (25, 66856), (26, 66829), (27, 66820), (30, 66658), (32, 66535), (33, 66532), (34, 66514), (35, 66493), (37, 66451),

Gene: Catdawg_115 Start: 67576, Stop: 67061, Start Num: 20
Candidate Starts for Catdawg_115:
(Start: 20 @67576 has 28 MA's), (21, 67540), (22, 67531), (23, 67528), (24, 67522), (25, 67492), (26, 67465), (27, 67456), (29, 67348), (30, 67294), (32, 67171), (33, 67168), (34, 67150), (35, 67129), (37, 67087),

Gene: Corndog_110 Start: 65213, Stop: 64647, Start Num: 20
Candidate Starts for Corndog_110:
(1, 65786), (2, 65684), (4, 65621), (5, 65561), (6, 65549), (8, 65522), (12, 65393), (14, 65384), (15, 65330), (16, 65324), (18, 65297), (19, 65291), (Start: 20 @65213 has 28 MA's), (21, 65177), (22, 65168), (23, 65165), (25, 65129), (26, 65102), (27, 65093), (28, 64988), (30, 64880), (32, 64757), (33, 64754), (34, 64736), (35, 64715), (37, 64673),

Gene: Dylan_108 Start: 65404, Stop: 64838, Start Num: 20
Candidate Starts for Dylan_108:
(Start: 20 @65404 has 28 MA's), (21, 65368), (22, 65359), (23, 65356), (25, 65320), (26, 65293), (27, 65284), (28, 65179), (30, 65071), (32, 64948), (33, 64945), (34, 64927), (35, 64906), (37, 64864),

Gene: Familton_116 Start: 67348, Stop: 66833, Start Num: 20
Candidate Starts for Familton_116:
(Start: 20 @67348 has 28 MA's), (21, 67312), (22, 67303), (23, 67300), (25, 67264), (26, 67237), (27, 67228), (29, 67120), (30, 67066), (31, 66976), (32, 66943), (33, 66940), (34, 66922), (35, 66901), (37, 66859),

Gene: Firecracker_114 Start: 66931, Stop: 66365, Start Num: 20
Candidate Starts for Firecracker_114:
(3, 67366), (7, 67264), (9, 67201), (10, 67141), (11, 67129), (13, 67102), (Start: 20 @66931 has 28 MA's), (21, 66895), (22, 66886), (23, 66883), (25, 66847), (26, 66820), (27, 66811), (28, 66706), (30, 66598), (32, 66475), (33, 66472), (34, 66454), (35, 66433), (37, 66391),

Gene: FoulBall_113 Start: 66539, Stop: 66024, Start Num: 20
Candidate Starts for FoulBall_113:
(Start: 20 @66539 has 28 MA's), (21, 66503), (22, 66494), (23, 66491), (24, 66485), (25, 66455), (26, 66428), (27, 66419), (29, 66311), (30, 66257), (32, 66134), (33, 66131), (34, 66113), (35, 66092), (37, 66050),

Gene: Idergollasper_118 Start: 68059, Stop: 67544, Start Num: 20
Candidate Starts for Idergollasper_118:
(Start: 20 @68059 has 28 MA's), (21, 68023), (22, 68014), (23, 68011), (25, 67975), (26, 67948), (27, 67939), (29, 67831), (30, 67777), (31, 67687), (32, 67654), (33, 67651), (34, 67633), (35, 67612), (37, 67570),

Gene: Imara_110 Start: 66342, Stop: 65827, Start Num: 20
Candidate Starts for Imara_110:
(Start: 20 @66342 has 28 MA's), (21, 66306), (22, 66297), (23, 66294), (24, 66288), (25, 66258), (26, 66231), (27, 66222), (29, 66114), (30, 66060), (32, 65937), (33, 65934), (34, 65916), (35, 65895), (37, 65853),

Gene: JangDynasty_112 Start: 66409, Stop: 65894, Start Num: 20
Candidate Starts for JangDynasty_112:
(Start: 20 @66409 has 28 MA's), (21, 66373), (22, 66364), (23, 66361), (25, 66325), (26, 66298), (27, 66289), (29, 66181), (30, 66127), (31, 66037), (32, 66004), (33, 66001), (34, 65983), (35, 65962), (37,

65920),

Gene: KingPhillip3_110 Start: 66915, Stop: 66400, Start Num: 20
Candidate Starts for KingPhillip3_110:
(Start: 20 @66915 has 28 MA's), (21, 66879), (22, 66870), (23, 66867), (25, 66831), (26, 66804), (27, 66795), (29, 66687), (30, 66633), (31, 66543), (32, 66510), (33, 66507), (34, 66489), (35, 66468), (37, 66426),

Gene: Krili_116 Start: 67134, Stop: 66619, Start Num: 20
Candidate Starts for Krili_116:
(Start: 20 @67134 has 28 MA's), (21, 67098), (22, 67089), (23, 67086), (25, 67050), (26, 67023), (27, 67014), (29, 66906), (30, 66852), (32, 66729), (33, 66726), (34, 66708), (35, 66687), (37, 66645),

Gene: MadKillah_117 Start: 66609, Stop: 66094, Start Num: 20
Candidate Starts for MadKillah_117:
(Start: 20 @66609 has 28 MA's), (21, 66573), (22, 66564), (23, 66561), (24, 66555), (25, 66525), (26, 66498), (27, 66489), (29, 66381), (30, 66327), (32, 66204), (33, 66201), (34, 66183), (35, 66162), (37, 66120),

Gene: Mori_114 Start: 67159, Stop: 66644, Start Num: 20
Candidate Starts for Mori_114:
(Start: 20 @67159 has 28 MA's), (21, 67123), (22, 67114), (23, 67111), (25, 67075), (26, 67048), (27, 67039), (29, 66931), (30, 66877), (32, 66754), (33, 66751), (34, 66733), (35, 66712), (37, 66670),

Gene: Murai_114 Start: 66977, Stop: 66462, Start Num: 20
Candidate Starts for Murai_114:
(Start: 20 @66977 has 28 MA's), (21, 66941), (22, 66932), (23, 66929), (24, 66923), (25, 66893), (26, 66866), (27, 66857), (29, 66749), (30, 66695), (32, 66572), (33, 66569), (34, 66551), (35, 66530), (37, 66488),

Gene: NiebruSaylor_114 Start: 66273, Stop: 65758, Start Num: 20
Candidate Starts for NiebruSaylor_114:
(Start: 20 @66273 has 28 MA's), (21, 66237), (22, 66228), (23, 66225), (25, 66189), (26, 66162), (27, 66153), (29, 66045), (30, 65991), (31, 65901), (32, 65868), (33, 65865), (34, 65847), (35, 65826), (37, 65784),

Gene: Ryadel_119 Start: 68125, Stop: 67610, Start Num: 20
Candidate Starts for Ryadel_119:
(Start: 20 @68125 has 28 MA's), (21, 68089), (22, 68080), (23, 68077), (25, 68041), (26, 68014), (27, 68005), (29, 67897), (30, 67843), (32, 67720), (33, 67717), (34, 67699), (35, 67678), (36, 67648), (37, 67636),

Gene: SchoolBus_115 Start: 67224, Stop: 66709, Start Num: 20
Candidate Starts for SchoolBus_115:
(Start: 20 @67224 has 28 MA's), (21, 67188), (22, 67179), (23, 67176), (25, 67140), (26, 67113), (27, 67104), (29, 66996), (30, 66942), (31, 66852), (32, 66819), (33, 66816), (34, 66798), (35, 66777), (37, 66735),

Gene: Schuy_114 Start: 66324, Stop: 65809, Start Num: 20
Candidate Starts for Schuy_114:
(Start: 20 @66324 has 28 MA's), (21, 66288), (22, 66279), (23, 66276), (24, 66270), (25, 66240), (26, 66213), (27, 66204), (29, 66096), (30, 66042), (32, 65919), (33, 65916), (34, 65898), (35, 65877), (37, 65835),

Gene: Shida_114 Start: 66885, Stop: 66370, Start Num: 20
Candidate Starts for Shida_114:
(Start: 20 @66885 has 28 MA's), (21, 66849), (22, 66840), (23, 66837), (25, 66801), (26, 66774), (27, 66765), (29, 66657), (30, 66603), (31, 66513), (32, 66480), (33, 66477), (34, 66459), (35, 66438), (37, 66396),

Gene: Smooch_112 Start: 66857, Stop: 66342, Start Num: 20
Candidate Starts for Smooch_112:
(Start: 20 @66857 has 28 MA's), (21, 66821), (22, 66812), (23, 66809), (24, 66803), (25, 66773), (26, 66746), (27, 66737), (29, 66629), (30, 66575), (32, 66452), (33, 66449), (34, 66431), (35, 66410), (37, 66368),

Gene: TelAviv_111 Start: 66957, Stop: 66442, Start Num: 20
Candidate Starts for TelAviv_111:
(Start: 20 @66957 has 28 MA's), (21, 66921), (22, 66912), (23, 66909), (25, 66873), (26, 66846), (27, 66837), (29, 66729), (30, 66675), (31, 66585), (32, 66552), (33, 66549), (34, 66531), (35, 66510), (37, 66468),

Gene: Vagabond_113 Start: 66372, Stop: 65857, Start Num: 20
Candidate Starts for Vagabond_113:
(Start: 20 @66372 has 28 MA's), (21, 66336), (22, 66327), (23, 66324), (24, 66318), (25, 66288), (26, 66261), (27, 66252), (29, 66144), (30, 66090), (32, 65967), (33, 65964), (34, 65946), (35, 65925), (37, 65883),

Gene: Vorrps_114 Start: 67160, Stop: 66645, Start Num: 20
Candidate Starts for Vorrps_114:
(Start: 20 @67160 has 28 MA's), (21, 67124), (22, 67115), (23, 67112), (25, 67076), (26, 67049), (27, 67040), (29, 66932), (30, 66878), (32, 66755), (33, 66752), (34, 66734), (35, 66713), (37, 66671),

Gene: Wildflower_110 Start: 65042, Stop: 64368, Start Num: 17
Candidate Starts for Wildflower_110:
(Start: 17 @65042 has 2 MA's), (Start: 20 @64934 has 28 MA's), (21, 64898), (22, 64889), (23, 64886), (25, 64850), (26, 64823), (27, 64814), (28, 64709), (30, 64601), (32, 64478), (33, 64475), (34, 64457), (35, 64436), (37, 64394),

Gene: Winget_114 Start: 67009, Stop: 66494, Start Num: 20
Candidate Starts for Winget_114:
(Start: 20 @67009 has 28 MA's), (21, 66973), (22, 66964), (23, 66961), (24, 66955), (25, 66925), (26, 66898), (27, 66889), (29, 66781), (30, 66727), (32, 66604), (33, 66601), (34, 66583), (35, 66562), (37, 66520),

Gene: Wogge42_110 Start: 66342, Stop: 65776, Start Num: 20
Candidate Starts for Wogge42_110:
(Start: 20 @66342 has 28 MA's), (21, 66306), (22, 66297), (23, 66294), (25, 66258), (26, 66231), (27, 66222), (28, 66117), (30, 66009), (32, 65886), (33, 65883), (34, 65865), (35, 65844), (37, 65802),

Gene: YoyoKar_111 Start: 66432, Stop: 65917, Start Num: 20
Candidate Starts for YoyoKar_111:
(Start: 20 @66432 has 28 MA's), (21, 66396), (22, 66387), (23, 66384), (25, 66348), (26, 66321), (27, 66312), (29, 66204), (30, 66150), (32, 66027), (33, 66024), (34, 66006), (35, 65985), (37, 65943),

Gene: YungJamal_111 Start: 65646, Stop: 65131, Start Num: 20

Candidate Starts for YungJamal_111:
(Start: 20 @65646 has 28 MA's), (21, 65610), (22, 65601), (23, 65598), (24, 65592), (25, 65562), (26, 65535), (27, 65526), (29, 65418), (30, 65364), (32, 65241), (33, 65238), (34, 65220), (35, 65199), (37, 65157),

Gene: Zakhe101_110 Start: 65243, Stop: 64728, Start Num: 20
Candidate Starts for Zakhe101_110:
(Start: 20 @65243 has 28 MA's), (21, 65207), (22, 65198), (23, 65195), (25, 65159), (26, 65132), (27, 65123), (30, 64961), (32, 64838), (33, 64835), (34, 64817), (35, 64796), (37, 64754),

Gene: Zebo_113 Start: 66792, Stop: 66226, Start Num: 20
Candidate Starts for Zebo_113:
(Start: 20 @66792 has 28 MA's), (21, 66756), (22, 66747), (23, 66744), (25, 66708), (26, 66681), (27, 66672), (28, 66567), (30, 66459), (32, 66336), (33, 66333), (34, 66315), (35, 66294), (37, 66252),