Pham 347825


1: Doomslug_60 + 1
2: Jant_55 + 7
3: Melissauren88_49 + 9
4: ByChance_43 + 3
5: Moonbeam_47
6: Oksu_57
7: Beanstalk_51
8: Mantra_48
9: Krakatau_49
10: IMpilo_48
11: Fruitloop_49 + 3
12: Peridot_51
13: Guppsters_52
14: SilverChicken_60

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 347825 Report

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

Pham number 347825 has 37 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Doomslug_60, Ms6_45
• Track 2 : Jant_55, Emma_51, Medindi_49, Filuzino_49, Hegedechwinu_51, PhesterPhotato_53, MilleniumForce_51, Beakin_53
• Track 3 : Melissauren88_49, VRedHorse_51, Lorde_52, MinionDave_50, XFactor_49, Batiatus_49, StAnnes_50, Enby_52, CaptainTrips_48, SG4_48
• Track 4 : ByChance_43, Hades_52, Gorge_56, Saal_54
• Track 5 : Moonbeam_47
• Track 6 : Oksu_57
• Track 7 : Beanstalk_51
• Track 8 : Mantra_48
• Track 9 : Krakatau_49
• Track 10 : IMpilo_48
• Track 11 : Fruitloop_49, Phalconet_50, DLane_47, Ovechkin_48
• Track 12 : Peridot_51
• Track 13 : Guppsters_52
• Track 14 : SilverChicken_60

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

The start number called the most often in the published annotations is 9, it was called in 25 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Batiatus_49, Beakin_53, ByChance_43, CaptainTrips_48, DLane_47, Doomslug_60, Emma_51, Enby_52, Filuzino_49, Fruitloop_49, Gorge_56, Guppsters_52, Hades_52, Hegedechwinu_51, IMpilo_48, Jant_55, Lorde_52, Medindi_49, Melissauren88_49, MilleniumForce_51, MinionDave_50, Ms6_45, Ovechkin_48, Phalconet_50, PhesterPhotato_53, SG4_48, Saal_54, StAnnes_50, VRedHorse_51, XFactor_49,

Genes that have the "Most Annotated" start but do not call it:
• Moonbeam_47,

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

• Beanstalk_51, Krakatau_49, Mantra_48, Oksu_57, Peridot_51, SilverChicken_60,

Summary by start number:

Start 7:
• Found in 11 of 37 (29.7%) of genes in pham
• Manual Annotations of this start: 3 of 31
• Called 27.3% of time when present
• Phage (with cluster) where this start called: Moonbeam_47 (F1), Oksu_57 (F1), Peridot_51 (F1),

Start 9:
• Found in 31 of 37 (83.8%) of genes in pham
• Manual Annotations of this start: 25 of 31
• Called 96.8% of time when present
• Phage (with cluster) where this start called: Batiatus_49 (F1), Beakin_53 (F1), ByChance_43 (F1), CaptainTrips_48 (F1), DLane_47 (F1), Doomslug_60 (F), Emma_51 (F1), Enby_52 (F1), Filuzino_49 (F1), Fruitloop_49 (F1), Gorge_56 (F1), Guppsters_52 (F1), Hades_52 (F1), Hegedechwinu_51 (F1), IMpilo_48 (F1), Jant_55 (F1), Lorde_52 (F1), Medindi_49 (F1), Melissauren88_49 (F1), MilleniumForce_51 (F1), MinionDave_50 (F1), Ms6_45 (F1), Ovechkin_48 (F1), Phalconet_50 (F1), PhesterPhotato_53 (F1), SG4_48 (F1), Saal_54 (F1), StAnnes_50 (F1), VRedHorse_51 (F1), XFactor_49 (F1),

Start 10:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Krakatau_49 (F1),

Start 12:
• Found in 10 of 37 (27.0%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: SilverChicken_60 (F2),

Start 13:
• Found in 36 of 37 (97.3%) of genes in pham
• Manual Annotations of this start: 2 of 31
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Beanstalk_51 (F1), Mantra_48 (F1),

Summary by clusters:

There are 3 clusters represented in this pham: F1, F2, F,

Info for manual annotations of cluster F1:
•Start number 7 was manually annotated 3 times for cluster F1.
•Start number 9 was manually annotated 25 times for cluster F1.
•Start number 10 was manually annotated 1 time for cluster F1.
•Start number 13 was manually annotated 2 times for cluster F1.

Gene Information:

Gene: Batiatus_49 Start: 36900, Stop: 37049, Start Num: 9
Candidate Starts for Batiatus_49:
(Start: 9 @36900 has 25 MA's), (Start: 13 @36927 has 2 MA's), (14, 36939), (15, 36963), (17, 36990),

Gene: Beakin_53 Start: 36720, Stop: 36896, Start Num: 9
Candidate Starts for Beakin_53:
(Start: 7 @36717 has 3 MA's), (Start: 9 @36720 has 25 MA's), (12, 36756), (Start: 13 @36774 has 2 MA's), (14, 36786), (15, 36810), (17, 36837),

Gene: Beanstalk_51 Start: 36332, Stop: 36454, Start Num: 13
Candidate Starts for Beanstalk_51:
(5, 36263), (8, 36293), (Start: 13 @36332 has 2 MA's), (14, 36344), (15, 36368), (16, 36386), (17, 36395),

Gene: ByChance_43 Start: 32694, Stop: 32843, Start Num: 9
Candidate Starts for ByChance_43:
(Start: 9 @32694 has 25 MA's), (Start: 13 @32721 has 2 MA's), (14, 32733), (15, 32757), (17, 32784), (18, 32805),

Gene: CaptainTrips_48 Start: 35920, Stop: 36069, Start Num: 9
Candidate Starts for CaptainTrips_48:
(Start: 9 @35920 has 25 MA's), (Start: 13 @35947 has 2 MA's), (14, 35959), (15, 35983), (17, 36010),

Gene: DLane_47 Start: 36002, Stop: 36151, Start Num: 9
Candidate Starts for DLane_47:
(Start: 9 @36002 has 25 MA's), (Start: 13 @36029 has 2 MA's), (14, 36041), (15, 36065), (17, 36092),

Gene: Doomslug_60 Start: 36902, Stop: 37066, Start Num: 9
Candidate Starts for Doomslug_60:
(2, 36818), (3, 36851), (6, 36878), (Start: 9 @36902 has 25 MA's), (Start: 13 @36944 has 2 MA's), (14, 36956), (15, 36980), (17, 37007),

Gene: Emma_51 Start: 36232, Stop: 36408, Start Num: 9
Candidate Starts for Emma_51:
(Start: 7 @36229 has 3 MA's), (Start: 9 @36232 has 25 MA's), (12, 36268), (Start: 13 @36286 has 2 MA's), (14, 36298), (15, 36322), (17, 36349),

Gene: Enby_52 Start: 35406, Stop: 35555, Start Num: 9
Candidate Starts for Enby_52:
(Start: 9 @35406 has 25 MA's), (Start: 13 @35433 has 2 MA's), (14, 35445), (15, 35469), (17, 35496),

Gene: Filuzino_49 Start: 35812, Stop: 35988, Start Num: 9
Candidate Starts for Filuzino_49:
(Start: 7 @35809 has 3 MA's), (Start: 9 @35812 has 25 MA's), (12, 35848), (Start: 13 @35866 has 2 MA's), (14, 35878), (15, 35902), (17, 35929),

Gene: Fruitloop_49 Start: 37675, Stop: 37824, Start Num: 9
Candidate Starts for Fruitloop_49:

(Start: 9 @37675 has 25 MA's), (Start: 13 @37702 has 2 MA's), (14, 37714), (15, 37738), (17, 37765),

Gene: Gorge_56 Start: 38586, Stop: 38735, Start Num: 9
Candidate Starts for Gorge_56:
(Start: 9 @38586 has 25 MA's), (Start: 13 @38613 has 2 MA's), (14, 38625), (15, 38649), (17, 38676), (18, 38697),

Gene: Guppsters_52 Start: 36514, Stop: 36678, Start Num: 9
Candidate Starts for Guppsters_52:
(4, 36469), (6, 36490), (Start: 9 @36514 has 25 MA's), (Start: 13 @36556 has 2 MA's), (14, 36568), (15, 36592), (17, 36619),

Gene: Hades_52 Start: 37185, Stop: 37334, Start Num: 9
Candidate Starts for Hades_52:
(Start: 9 @37185 has 25 MA's), (Start: 13 @37212 has 2 MA's), (14, 37224), (15, 37248), (17, 37275), (18, 37296),

Gene: Hegedechwinu_51 Start: 35612, Stop: 35788, Start Num: 9
Candidate Starts for Hegedechwinu_51:
(Start: 7 @35609 has 3 MA's), (Start: 9 @35612 has 25 MA's), (12, 35648), (Start: 13 @35666 has 2 MA's), (14, 35678), (15, 35702), (17, 35729),

Gene: IMpilo_48 Start: 35282, Stop: 35431, Start Num: 9
Candidate Starts for IMpilo_48:
(1, 35183), (Start: 9 @35282 has 25 MA's), (Start: 13 @35309 has 2 MA's), (14, 35321), (15, 35345), (17, 35372),

Gene: Jant_55 Start: 38683, Stop: 38859, Start Num: 9
Candidate Starts for Jant_55:
(Start: 7 @38680 has 3 MA's), (Start: 9 @38683 has 25 MA's), (12, 38719), (Start: 13 @38737 has 2 MA's), (14, 38749), (15, 38773), (17, 38800),

Gene: Krakatau_49 Start: 36698, Stop: 36850, Start Num: 10
Candidate Starts for Krakatau_49:
(Start: 10 @36698 has 1 MA's), (Start: 13 @36728 has 2 MA's), (14, 36740), (15, 36764), (16, 36782), (17, 36791),

Gene: Lorde_52 Start: 35381, Stop: 35530, Start Num: 9
Candidate Starts for Lorde_52:
(Start: 9 @35381 has 25 MA's), (Start: 13 @35408 has 2 MA's), (14, 35420), (15, 35444), (17, 35471),

Gene: Mantra_48 Start: 36205, Stop: 36327, Start Num: 13
Candidate Starts for Mantra_48:
(5, 36139), (8, 36169), (Start: 13 @36205 has 2 MA's), (14, 36217), (15, 36241), (16, 36259), (17, 36268),

Gene: Medindi_49 Start: 35093, Stop: 35269, Start Num: 9
Candidate Starts for Medindi_49:
(Start: 7 @35090 has 3 MA's), (Start: 9 @35093 has 25 MA's), (12, 35129), (Start: 13 @35147 has 2 MA's), (14, 35159), (15, 35183), (17, 35210),

Gene: Melissauren88_49 Start: 36158, Stop: 36307, Start Num: 9
Candidate Starts for Melissauren88_49:

(Start: 9 @36158 has 25 MA's), (Start: 13 @36185 has 2 MA's), (14, 36197), (15, 36221), (17, 36248),

Gene: MilleniumForce_51 Start: 38152, Stop: 38328, Start Num: 9
Candidate Starts for MilleniumForce_51:
(Start: 7 @38149 has 3 MA's), (Start: 9 @38152 has 25 MA's), (12, 38188), (Start: 13 @38206 has 2 MA's), (14, 38218), (15, 38242), (17, 38269),

Gene: MinionDave_50 Start: 36695, Stop: 36844, Start Num: 9
Candidate Starts for MinionDave_50:
(Start: 9 @36695 has 25 MA's), (Start: 13 @36722 has 2 MA's), (14, 36734), (15, 36758), (17, 36785),

Gene: Moonbeam_47 Start: 36185, Stop: 36364, Start Num: 7
Candidate Starts for Moonbeam_47:
(Start: 7 @36185 has 3 MA's), (Start: 9 @36188 has 25 MA's), (12, 36224), (Start: 13 @36242 has 2 MA's), (14, 36254), (15, 36278), (17, 36305),

Gene: Ms6_45 Start: 31504, Stop: 31668, Start Num: 9
Candidate Starts for Ms6_45:
(2, 31420), (3, 31453), (6, 31480), (Start: 9 @31504 has 25 MA's), (Start: 13 @31546 has 2 MA's), (14, 31558), (15, 31582), (17, 31609),

Gene: Oksu_57 Start: 39204, Stop: 39365, Start Num: 7
Candidate Starts for Oksu_57:
(Start: 7 @39204 has 3 MA's), (11, 39222), (15, 39279), (16, 39297), (17, 39306),

Gene: Ovechkin_48 Start: 36542, Stop: 36691, Start Num: 9
Candidate Starts for Ovechkin_48:
(Start: 9 @36542 has 25 MA's), (Start: 13 @36569 has 2 MA's), (14, 36581), (15, 36605), (17, 36632),

Gene: Peridot_51 Start: 36970, Stop: 37131, Start Num: 7
Candidate Starts for Peridot_51:
(Start: 7 @36970 has 3 MA's), (Start: 13 @37009 has 2 MA's), (14, 37021), (15, 37045), (16, 37063), (17, 37072),

Gene: Phalconet_50 Start: 36462, Stop: 36611, Start Num: 9
Candidate Starts for Phalconet_50:
(Start: 9 @36462 has 25 MA's), (Start: 13 @36489 has 2 MA's), (14, 36501), (15, 36525), (17, 36552),

Gene: PhesterPhotato_53 Start: 37420, Stop: 37596, Start Num: 9
Candidate Starts for PhesterPhotato_53:
(Start: 7 @37417 has 3 MA's), (Start: 9 @37420 has 25 MA's), (12, 37456), (Start: 13 @37474 has 2 MA's), (14, 37486), (15, 37510), (17, 37537),

Gene: SG4_48 Start: 35891, Stop: 36040, Start Num: 9
Candidate Starts for SG4_48:
(Start: 9 @35891 has 25 MA's), (Start: 13 @35918 has 2 MA's), (14, 35930), (15, 35954), (17, 35981),

Gene: Saal_54 Start: 38405, Stop: 38554, Start Num: 9
Candidate Starts for Saal_54:
(Start: 9 @38405 has 25 MA's), (Start: 13 @38432 has 2 MA's), (14, 38444), (15, 38468), (17, 38495), (18, 38516),

Gene: SilverChicken_60 Start: 37014, Stop: 37154, Start Num: 12

Candidate Starts for SilverChicken_60:
(5, 36963), (8, 36993), (12, 37014), (Start: 13 @37032 has 2 MA's), (14, 37044), (15, 37068), (17, 37095),

Gene: StAnnes_50 Start: 37137, Stop: 37286, Start Num: 9
Candidate Starts for StAnnes_50:
(Start: 9 @37137 has 25 MA's), (Start: 13 @37164 has 2 MA's), (14, 37176), (15, 37200), (17, 37227),

Gene: VRedHorse_51 Start: 36379, Stop: 36528, Start Num: 9
Candidate Starts for VRedHorse_51:
(Start: 9 @36379 has 25 MA's), (Start: 13 @36406 has 2 MA's), (14, 36418), (15, 36442), (17, 36469),

Gene: XFactor_49 Start: 35866, Stop: 36015, Start Num: 9
Candidate Starts for XFactor_49:
(Start: 9 @35866 has 25 MA's), (Start: 13 @35893 has 2 MA's), (14, 35905), (15, 35929), (17, 35956),