Zoomed Pham 203059

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 203059 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203059 has 45 members, 16 are drafts.

Phages represented in each track:
• Track 1 : Chlochlo_56, Tokki_63, Phaby_60
• Track 2 : Bouchard_59
• Track 3 : LilHuddy_59
• Track 4 : Giantsbane_60
• Track 5 : Zippen_60
• Track 6 : MediumFry_56
• Track 7 : Caterpillar_55
• Track 8 : Brad_46, Jasmine_48, GurgleFerb_46, Adat_46, Nellie_46
• Track 9 : Raunak_61, Boog_60, DoctorPepper_58, MrAaronian_59, Salk_59, BronxBay_59, Djungelskog_58, Stayer_59, Egad_59, Sloopyjoe_59, Linda_59, Shiba_58, Michelle_59, ProfFrink_59, StarLord_59
• Track 10 : Natasha_59, RustyBoy_59
• Track 11 : Sporto_59
• Track 12 : Powelldog_64
• Track 13 : Jazzy4900_60, Sunny4976_59
• Track 14 : Arzan_61
• Track 15 : Gandionco_203, Elver_201, Qui_205, Paella_205
• Track 16 : Paella_195, Elver_191, Qui_195
• Track 17 : Gandionco_194
• Track 18 : Phroglets_45

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

The start number called the most often in the published annotations is 14, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adat_46, Arzan_61, Boog_60, Bouchard_59, Brad_46, BronxBay_59, Caterpillar_55, Chlochlo_56, Djungelskog_58, DoctorPepper_58, Egad_59, Elver_191, Elver_201, Gandionco_194, Gandionco_203, Giantsbane_60, GurgleFerb_46, Jasmine_48, Jazzy4900_60, LilHuddy_59, Linda_59, MediumFry_56, Michelle_59, MrAaronian_59, Natasha_59, Nellie_46, Paella_195, Paella_205, Phaby_60, Phroglets_45, Powelldog_64, ProfFrink_59, Qui_195, Qui_205, Raunak_61, RustyBoy_59, Salk_59, Shiba_58, Sloopyjoe_59, Sporto_59,

StarLord_59, Stayer_59, Sunny4976_59, Tokki_63, Zippen_60,

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

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

Summary by start number:

Start 14:
• Found in 45 of 45 (100.0%) of genes in pham
• Manual Annotations of this start: 29 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adat_46 (AV), Arzan_61 (FI), Boog_60 (AW), Bouchard_59 (AU2), Brad_46 (AV), BronxBay_59 (AW), Caterpillar_55 (AU4), Chlochlo_56 (AU2), Djungelskog_58 (AW), DoctorPepper_58 (AW), Egad_59 (AW), Elver_191 (FK), Elver_201 (FK), Gandionco_194 (FK), Gandionco_203 (FK), Giantsbane_60 (AU2), GurgleFerb_46 (AV), Jasmine_48 (AV), Jazzy4900_60 (FI), LilHuddy_59 (AU2), Linda_59 (AW), MediumFry_56 (AU4), Michelle_59 (AW), MrAaronian_59 (AW), Natasha_59 (AW), Nellie_46 (AV), Paella_195 (FK), Paella_205 (FK), Phaby_60 (AU2), Phroglets_45 (singleton), Powelldog_64 (AW), ProfFrink_59 (AW), Qui_195 (FK), Qui_205 (FK), Raunak_61 (AW), RustyBoy_59 (AW), Salk_59 (AW), Shiba_58 (AW), Sloopyjoe_59 (AW), Sporto_59 (AW), StarLord_59 (AW), Stayer_59 (AW), Sunny4976_59 (FI), Tokki_63 (AU2), Zippen_60 (AU3),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, AU3, AU2, AU4, AW, AV, FI, FK,

Info for manual annotations of cluster AU2:
•Start number 14 was manually annotated 4 times for cluster AU2.

Info for manual annotations of cluster AU4:
•Start number 14 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AV:
•Start number 14 was manually annotated 5 times for cluster AV.

Info for manual annotations of cluster AW:
•Start number 14 was manually annotated 14 times for cluster AW.

Info for manual annotations of cluster FK:
•Start number 14 was manually annotated 4 times for cluster FK.

Gene Information:

Gene: Adat_46 Start: 38749, Stop: 38522, Start Num: 14
Candidate Starts for Adat_46:
(Start: 14 @38749 has 29 MA's), (21, 38689), (24, 38671), (31, 38626), (32, 38608), (35, 38596), (40, 38566), (41, 38554),

Gene: Arzan_61 Start: 42083, Stop: 42295, Start Num: 14
Candidate Starts for Arzan_61:
(9, 42071), (Start: 14 @42083 has 29 MA's), (15, 42086), (17, 42098), (23, 42149), (32, 42212), (40, 42254),

Gene: Boog_60 Start: 40523, Stop: 40729, Start Num: 14
Candidate Starts for Boog_60:
(8, 40499), (Start: 14 @40523 has 29 MA's), (31, 40637),

Gene: Bouchard_59 Start: 42753, Stop: 42968, Start Num: 14
Candidate Starts for Bouchard_59:
(Start: 14 @42753 has 29 MA's), (22, 42816), (30, 42861), (38, 42915), (40, 42924),

Gene: Brad_46 Start: 38747, Stop: 38520, Start Num: 14
Candidate Starts for Brad_46:
(Start: 14 @38747 has 29 MA's), (21, 38687), (24, 38669), (31, 38624), (32, 38606), (35, 38594), (40, 38564), (41, 38552),

Gene: BronxBay_59 Start: 40779, Stop: 40985, Start Num: 14
Candidate Starts for BronxBay_59:
(8, 40755), (Start: 14 @40779 has 29 MA's), (31, 40893),

Gene: Caterpillar_55 Start: 41730, Stop: 41939, Start Num: 14
Candidate Starts for Caterpillar_55:
(Start: 14 @41730 has 29 MA's), (27, 41805),

Gene: Chlochlo_56 Start: 42264, Stop: 42494, Start Num: 14
Candidate Starts for Chlochlo_56:
(Start: 14 @42264 has 29 MA's), (17, 42279), (29, 42378), (33, 42405), (34, 42408), (37, 42420), (39, 42441),

Gene: Djungelskog_58 Start: 40778, Stop: 40984, Start Num: 14
Candidate Starts for Djungelskog_58:
(8, 40754), (Start: 14 @40778 has 29 MA's), (31, 40892),

Gene: DoctorPepper_58 Start: 40483, Stop: 40689, Start Num: 14
Candidate Starts for DoctorPepper_58:
(8, 40459), (Start: 14 @40483 has 29 MA's), (31, 40597),

Gene: Egad_59 Start: 40780, Stop: 40986, Start Num: 14
Candidate Starts for Egad_59:
(8, 40756), (Start: 14 @40780 has 29 MA's), (31, 40894),

Gene: Elver_201 Start: 95821, Stop: 96039, Start Num: 14
Candidate Starts for Elver_201:
(Start: 14 @95821 has 29 MA's), (29, 95938), (31, 95941), (42, 96016),

Gene: Elver_191 Start: 92856, Stop: 93140, Start Num: 14

Candidate Starts for Elver_191:
(Start: 14 @92856 has 29 MA's), (19, 92877), (24, 92946), (43, 93075), (44, 93096),

Gene: Gandionco_203 Start: 95382, Stop: 95600, Start Num: 14
Candidate Starts for Gandionco_203:
(Start: 14 @95382 has 29 MA's), (29, 95499), (31, 95502), (42, 95577),

Gene: Gandionco_194 Start: 92260, Stop: 92541, Start Num: 14
Candidate Starts for Gandionco_194:
(13, 92257), (Start: 14 @92260 has 29 MA's), (16, 92269), (19, 92281), (25, 92356), (26, 92365), (38, 92452), (43, 92482),

Gene: Giantsbane_60 Start: 41662, Stop: 41874, Start Num: 14
Candidate Starts for Giantsbane_60:
(2, 41503), (3, 41524), (4, 41536), (7, 41596), (Start: 14 @41662 has 29 MA's), (38, 41830), (40, 41839),

Gene: GurgleFerb_46 Start: 38748, Stop: 38521, Start Num: 14
Candidate Starts for GurgleFerb_46:
(Start: 14 @38748 has 29 MA's), (21, 38688), (24, 38670), (31, 38625), (32, 38607), (35, 38595), (40, 38565), (41, 38553),

Gene: Jasmine_48 Start: 40368, Stop: 40141, Start Num: 14
Candidate Starts for Jasmine_48:
(Start: 14 @40368 has 29 MA's), (21, 40308), (24, 40290), (31, 40245), (32, 40227), (35, 40215), (40, 40185), (41, 40173),

Gene: Jazzy4900_60 Start: 42861, Stop: 43070, Start Num: 14
Candidate Starts for Jazzy4900_60:
(9, 42846), (12, 42858), (Start: 14 @42861 has 29 MA's), (17, 42876), (23, 42927), (28, 42960), (32, 42990), (40, 43032),

Gene: LilHuddy_59 Start: 42621, Stop: 42842, Start Num: 14
Candidate Starts for LilHuddy_59:
(6, 42507), (Start: 14 @42621 has 29 MA's), (27, 42711), (30, 42735), (40, 42798),

Gene: Linda_59 Start: 40776, Stop: 40982, Start Num: 14
Candidate Starts for Linda_59:
(8, 40752), (Start: 14 @40776 has 29 MA's), (31, 40890),

Gene: MediumFry_56 Start: 42019, Stop: 42228, Start Num: 14
Candidate Starts for MediumFry_56:
(Start: 14 @42019 has 29 MA's),

Gene: Michelle_59 Start: 40778, Stop: 40984, Start Num: 14
Candidate Starts for Michelle_59:
(8, 40754), (Start: 14 @40778 has 29 MA's), (31, 40892),

Gene: MrAaronian_59 Start: 40778, Stop: 40984, Start Num: 14
Candidate Starts for MrAaronian_59:
(8, 40754), (Start: 14 @40778 has 29 MA's), (31, 40892),

Gene: Natasha_59 Start: 40520, Stop: 40720, Start Num: 14

Candidate Starts for Natasha_59:
(Start: 14 @40520 has 29 MA's), (31, 40625),

Gene: Nellie_46 Start: 38749, Stop: 38522, Start Num: 14
Candidate Starts for Nellie_46:
(Start: 14 @38749 has 29 MA's), (21, 38689), (24, 38671), (31, 38626), (32, 38608), (35, 38596), (40, 38566), (41, 38554),

Gene: Paella_195 Start: 93732, Stop: 94016, Start Num: 14
Candidate Starts for Paella_195:
(Start: 14 @93732 has 29 MA's), (19, 93753), (24, 93822), (43, 93951), (44, 93972),

Gene: Paella_205 Start: 96697, Stop: 96915, Start Num: 14
Candidate Starts for Paella_205:
(Start: 14 @96697 has 29 MA's), (29, 96814), (31, 96817), (42, 96892),

Gene: Phaby_60 Start: 43170, Stop: 43400, Start Num: 14
Candidate Starts for Phaby_60:
(Start: 14 @43170 has 29 MA's), (17, 43185), (29, 43284), (33, 43311), (34, 43314), (37, 43326), (39, 43347),

Gene: Phroglets_45 Start: 39401, Stop: 39186, Start Num: 14
Candidate Starts for Phroglets_45:
(13, 39404), (Start: 14 @39401 has 29 MA's), (20, 39377), (36, 39248),

Gene: Powelldog_64 Start: 41666, Stop: 41854, Start Num: 14
Candidate Starts for Powelldog_64:
(8, 41642), (Start: 14 @41666 has 29 MA's), (31, 41762), (33, 41780), (35, 41789), (38, 41810),

Gene: ProfFrink_59 Start: 40779, Stop: 40985, Start Num: 14
Candidate Starts for ProfFrink_59:
(8, 40755), (Start: 14 @40779 has 29 MA's), (31, 40893),

Gene: Qui_205 Start: 96694, Stop: 96912, Start Num: 14
Candidate Starts for Qui_205:
(Start: 14 @96694 has 29 MA's), (29, 96811), (31, 96814), (42, 96889),

Gene: Qui_195 Start: 93729, Stop: 94013, Start Num: 14
Candidate Starts for Qui_195:
(Start: 14 @93729 has 29 MA's), (19, 93750), (24, 93819), (43, 93948), (44, 93969),

Gene: Raunak_61 Start: 40476, Stop: 40682, Start Num: 14
Candidate Starts for Raunak_61:
(8, 40452), (Start: 14 @40476 has 29 MA's), (31, 40590),

Gene: RustyBoy_59 Start: 40501, Stop: 40701, Start Num: 14
Candidate Starts for RustyBoy_59:
(Start: 14 @40501 has 29 MA's), (31, 40606),

Gene: Salk_59 Start: 40776, Stop: 40982, Start Num: 14
Candidate Starts for Salk_59:
(8, 40752), (Start: 14 @40776 has 29 MA's), (31, 40890),

Gene: Shiba_58 Start: 40476, Stop: 40682, Start Num: 14
Candidate Starts for Shiba_58:
(8, 40452), (Start: 14 @40476 has 29 MA's), (31, 40590),

Gene: Sloopyjoe_59 Start: 40780, Stop: 40986, Start Num: 14
Candidate Starts for Sloopyjoe_59:
(8, 40756), (Start: 14 @40780 has 29 MA's), (31, 40894),

Gene: Sporto_59 Start: 42046, Stop: 42234, Start Num: 14
Candidate Starts for Sporto_59:
(11, 42040), (Start: 14 @42046 has 29 MA's), (18, 42061), (26, 42109), (31, 42142), (35, 42169),

Gene: StarLord_59 Start: 40779, Stop: 40985, Start Num: 14
Candidate Starts for StarLord_59:
(8, 40755), (Start: 14 @40779 has 29 MA's), (31, 40893),

Gene: Stayer_59 Start: 40776, Stop: 40982, Start Num: 14
Candidate Starts for Stayer_59:
(8, 40752), (Start: 14 @40776 has 29 MA's), (31, 40890),

Gene: Sunny4976_59 Start: 42861, Stop: 43070, Start Num: 14
Candidate Starts for Sunny4976_59:
(9, 42846), (12, 42858), (Start: 14 @42861 has 29 MA's), (17, 42876), (23, 42927), (28, 42960), (32, 42990), (40, 43032),

Gene: Tokki_63 Start: 42783, Stop: 43004, Start Num: 14
Candidate Starts for Tokki_63:
(Start: 14 @42783 has 29 MA's), (17, 42798), (29, 42888), (33, 42915), (34, 42918), (37, 42930), (39, 42951),

Gene: Zippen_60 Start: 43340, Stop: 43552, Start Num: 14
Candidate Starts for Zippen_60:
(1, 43163), (5, 43220), (7, 43274), (10, 43325), (Start: 14 @43340 has 29 MA's), (28, 43430),