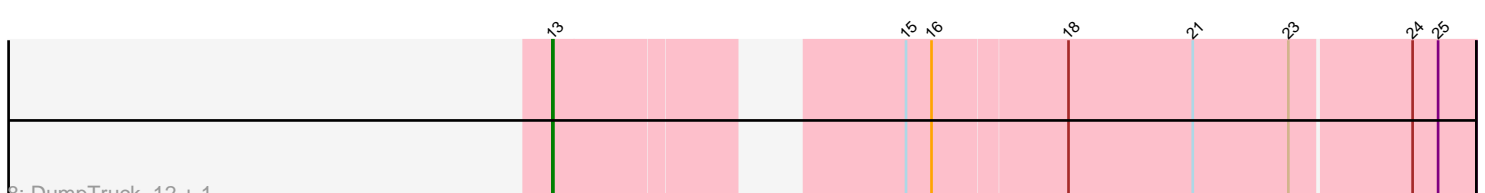
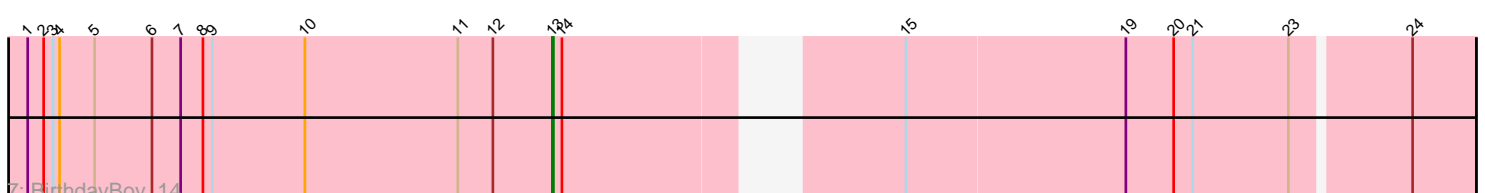
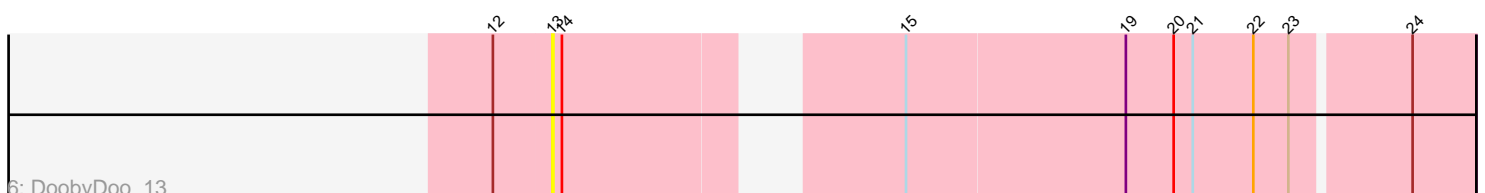
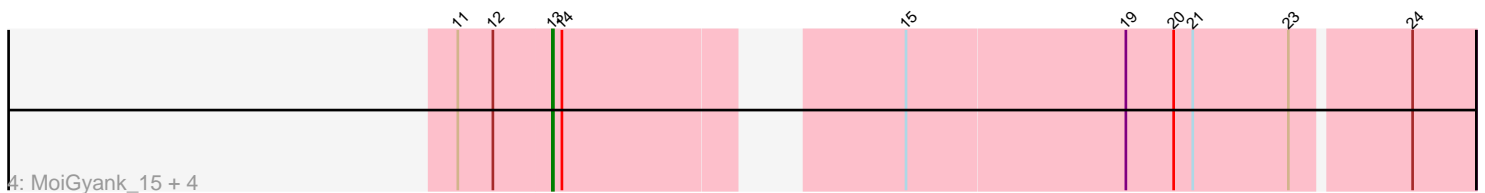
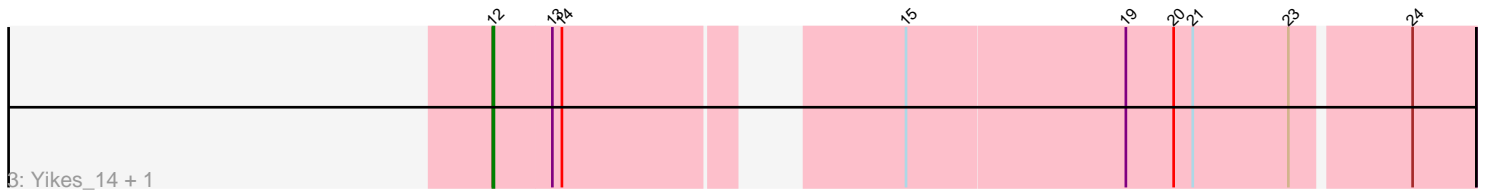
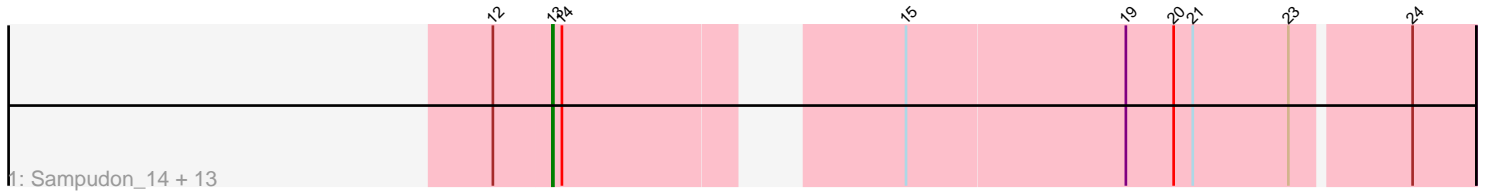


Pham 170164



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 170164 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170164 has 35 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Sampudon_14, Patos_14, Lambo_13, ParvusTarda_13, NorManre_14, OtterstedtS21_13, Jalebi_14, DaviePasture_15, Alephilan_11, Erutan_13, Ranch_13, Mima20_13, Gibbin_14, Zany_13
- Track 2 : Genamy16_12, NovaSharks_12, Jamemuya19_11, Rumi_12, Alyssamiracle_12, Avian_12
- Track 3 : Yikes_14, Lila22_15
- Track 4 : MoiGyank_15, GOATification_14, Fulcrum_14, GretelLyn_13, Sadboi_13
- Track 5 : Apeppi_12, Tillicus_14, LuckyLeo_13, Wojtek_12
- Track 6 : DoobyDoo_13
- Track 7 : BirthdayBoy_14
- Track 8 : DumpTruck_12, Xenia2_11

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

The start number called the most often in the published annotations is 13, it was called in 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alephilan_11, Alyssamiracle_12, Apeppi_12, Avian_12, BirthdayBoy_14, DaviePasture_15, DoobyDoo_13, DumpTruck_12, Erutan_13, Fulcrum_14, GOATification_14, Genamy16_12, Gibbin_14, GretelLyn_13, Jalebi_14, Jamemuya19_11, Lambo_13, LuckyLeo_13, Mima20_13, MoiGyank_15, NorManre_14, NovaSharks_12, OtterstedtS21_13, ParvusTarda_13, Patos_14, Ranch_13, Rumi_12, Sadboi_13, Sampudon_14, Tillicus_14, Wojtek_12, Xenia2_11, Zany_13,

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

- Lila22_15, Yikes_14,

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

-

Summary by start number:

Start 12:

- Found in 29 of 35 (82.9%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 6.9% of time when present
- Phage (with cluster) where this start called: Lila22_15 (DV), Yikes_14 (DV),

Start 13:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 23 of 24
- Called 94.3% of time when present
- Phage (with cluster) where this start called: Alephilan_11 (DV), Alyssamiracle_12 (DV), Apeppi_12 (DV), Avian_12 (DV), BirthdayBoy_14 (DV), DaviePasture_15 (DV), DoobyDoo_13 (DV), DumpTruck_12 (DV), Erutan_13 (DV), Fulcrum_14 (DV), GOATification_14 (DV), Genamy16_12 (DV), Gibbin_14 (DV), GretelLyn_13 (DV), Jalebi_14 (DV), Jamemuya19_11 (DV), Lambo_13 (DV), LuckyLeo_13 (DV), Mima20_13 (DV), MoiGyank_15 (DV), NorManre_14 (DV), NovaSharks_12 (DV), OtterstedtS21_13 (DV), ParvusTarda_13 (DV), Patos_14 (DV), Ranch_13 (DV), Rumi_12 (DV), Sadboi_13 (DV), Sampudon_14 (DV), Tillicus_14 (DV), Wojtek_12 (DV), Xenia2_11 (DV), Zany_13 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 12 was manually annotated 1 time for cluster DV.
- Start number 13 was manually annotated 23 times for cluster DV.

Gene Information:

Gene: Alephilan_11 Start: 9942, Stop: 10796, Start Num: 13

Candidate Starts for Alephilan_11:

(Start: 12 @9888 has 1 MA's), (Start: 13 @9942 has 23 MA's), (14, 9951), (15, 10275), (19, 10479), (20, 10524), (21, 10542), (23, 10632), (24, 10737),

Gene: Alyssamiracle_12 Start: 8415, Stop: 9203, Start Num: 13

Candidate Starts for Alyssamiracle_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 13 @8415 has 23 MA's), (14, 8424), (15, 8682), (19, 8886), (20, 8931), (21, 8949), (23, 9039), (24, 9144), (26, 9189),

Gene: Apeppi_12 Start: 10121, Stop: 10912, Start Num: 13

Candidate Starts for Apeppi_12:

(Start: 13 @10121 has 23 MA's), (14, 10130), (15, 10376), (17, 10484), (19, 10583), (20, 10628), (21, 10646), (24, 10853),

Gene: Avian_12 Start: 8415, Stop: 9203, Start Num: 13

Candidate Starts for Avian_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 13 @8415 has 23 MA's), (14, 8424), (15, 8682), (19, 8886), (20, 8931), (21, 8949), (23, 9039), (24, 9144), (26, 9189),

Gene: BirthdayBoy_14 Start: 10861, Stop: 11649, Start Num: 13

Candidate Starts for BirthdayBoy_14:

(1, 10369), (2, 10384), (3, 10393), (4, 10399), (5, 10432), (6, 10486), (7, 10513), (8, 10534), (9, 10543), (10, 10630), (11, 10774), (Start: 12 @10807 has 1 MA's), (Start: 13 @10861 has 23 MA's), (14, 10870), (15, 11128), (19, 11332), (20, 11377), (21, 11395), (23, 11485), (24, 11590),

Gene: DaviePasture_15 Start: 10618, Stop: 11406, Start Num: 13

Candidate Starts for DaviePasture_15:

(Start: 12 @10564 has 1 MA's), (Start: 13 @10618 has 23 MA's), (14, 10627), (15, 10885), (19, 11089), (20, 11134), (21, 11152), (23, 11242), (24, 11347),

Gene: DoobyDoo_13 Start: 9795, Stop: 10583, Start Num: 13

Candidate Starts for DoobyDoo_13:

(Start: 12 @9741 has 1 MA's), (Start: 13 @9795 has 23 MA's), (14, 9804), (15, 10062), (19, 10266), (20, 10311), (21, 10329), (22, 10386), (23, 10419), (24, 10524),

Gene: DumpTruck_12 Start: 10057, Stop: 10842, Start Num: 13

Candidate Starts for DumpTruck_12:

(Start: 13 @10057 has 23 MA's), (15, 10318), (16, 10342), (18, 10465), (21, 10582), (23, 10672), (24, 10783), (25, 10807),

Gene: Erutan_13 Start: 10308, Stop: 11096, Start Num: 13

Candidate Starts for Erutan_13:

(Start: 12 @10254 has 1 MA's), (Start: 13 @10308 has 23 MA's), (14, 10317), (15, 10575), (19, 10779), (20, 10824), (21, 10842), (23, 10932), (24, 11037),

Gene: Fulcrum_14 Start: 10841, Stop: 11629, Start Num: 13

Candidate Starts for Fulcrum_14:

(11, 10754), (Start: 12 @10787 has 1 MA's), (Start: 13 @10841 has 23 MA's), (14, 10850), (15, 11108), (19, 11312), (20, 11357), (21, 11375), (23, 11465), (24, 11570),

Gene: GOATification_14 Start: 10841, Stop: 11629, Start Num: 13

Candidate Starts for GOATification_14:

(11, 10754), (Start: 12 @10787 has 1 MA's), (Start: 13 @10841 has 23 MA's), (14, 10850), (15, 11108), (19, 11312), (20, 11357), (21, 11375), (23, 11465), (24, 11570),

Gene: Genamy16_12 Start: 8415, Stop: 9203, Start Num: 13

Candidate Starts for Genamy16_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 13 @8415 has 23 MA's), (14, 8424), (15, 8682), (19, 8886), (20, 8931), (21, 8949), (23, 9039), (24, 9144), (26, 9189),

Gene: Gibbin_14 Start: 10901, Stop: 11689, Start Num: 13

Candidate Starts for Gibbin_14:

(Start: 12 @10847 has 1 MA's), (Start: 13 @10901 has 23 MA's), (14, 10910), (15, 11168), (19, 11372), (20, 11417), (21, 11435), (23, 11525), (24, 11630),

Gene: Gretellyn_13 Start: 11175, Stop: 11963, Start Num: 13

Candidate Starts for Gretellyn_13:

(11, 11088), (Start: 12 @11121 has 1 MA's), (Start: 13 @11175 has 23 MA's), (14, 11184), (15, 11442), (19, 11646), (20, 11691), (21, 11709), (23, 11799), (24, 11904),

Gene: Jalebi_14 Start: 11351, Stop: 12139, Start Num: 13

Candidate Starts for Jalebi_14:

(Start: 12 @11297 has 1 MA's), (Start: 13 @11351 has 23 MA's), (14, 11360), (15, 11618), (19, 11822), (20, 11867), (21, 11885), (23, 11975), (24, 12080),

Gene: Jamemuya19_11 Start: 8415, Stop: 9203, Start Num: 13

Candidate Starts for Jamemuya19_11:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 13 @8415 has 23 MA's), (14, 8424), (15, 8682), (19, 8886), (20, 8931), (21, 8949), (23, 9039), (24, 9144), (26, 9189),

Gene: Lambo_13 Start: 10845, Stop: 11633, Start Num: 13

Candidate Starts for Lambo_13:

(Start: 12 @10791 has 1 MA's), (Start: 13 @10845 has 23 MA's), (14, 10854), (15, 11112), (19, 11316), (20, 11361), (21, 11379), (23, 11469), (24, 11574),

Gene: Lila22_15 Start: 10742, Stop: 11587, Start Num: 12

Candidate Starts for Lila22_15:

(Start: 12 @10742 has 1 MA's), (Start: 13 @10796 has 23 MA's), (14, 10805), (15, 11066), (19, 11270), (20, 11315), (21, 11333), (23, 11423), (24, 11528),

Gene: LuckyLeo_13 Start: 10121, Stop: 10912, Start Num: 13

Candidate Starts for LuckyLeo_13:

(Start: 13 @10121 has 23 MA's), (14, 10130), (15, 10376), (17, 10484), (19, 10583), (20, 10628), (21, 10646), (24, 10853),

Gene: Mima20_13 Start: 10525, Stop: 11316, Start Num: 13

Candidate Starts for Mima20_13:

(Start: 12 @10471 has 1 MA's), (Start: 13 @10525 has 23 MA's), (14, 10534), (15, 10795), (19, 10999), (20, 11044), (21, 11062), (23, 11152), (24, 11257),

Gene: MoiGyank_15 Start: 11212, Stop: 12000, Start Num: 13

Candidate Starts for MoiGyank_15:

(11, 11125), (Start: 12 @11158 has 1 MA's), (Start: 13 @11212 has 23 MA's), (14, 11221), (15, 11479), (19, 11683), (20, 11728), (21, 11746), (23, 11836), (24, 11941),

Gene: NorManre_14 Start: 10407, Stop: 11195, Start Num: 13

Candidate Starts for NorManre_14:

(Start: 12 @10353 has 1 MA's), (Start: 13 @10407 has 23 MA's), (14, 10416), (15, 10674), (19, 10878), (20, 10923), (21, 10941), (23, 11031), (24, 11136),

Gene: NovaSharks_12 Start: 8415, Stop: 9203, Start Num: 13

Candidate Starts for NovaSharks_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 13 @8415 has 23 MA's), (14, 8424), (15, 8682), (19, 8886), (20, 8931), (21, 8949), (23, 9039), (24, 9144), (26, 9189),

Gene: OtterstedtS21_13 Start: 10497, Stop: 11285, Start Num: 13

Candidate Starts for OtterstedtS21_13:

(Start: 12 @10443 has 1 MA's), (Start: 13 @10497 has 23 MA's), (14, 10506), (15, 10764), (19, 10968), (20, 11013), (21, 11031), (23, 11121), (24, 11226),

Gene: ParvusTarda_13 Start: 9979, Stop: 10767, Start Num: 13

Candidate Starts for ParvusTarda_13:

(Start: 12 @9925 has 1 MA's), (Start: 13 @9979 has 23 MA's), (14, 9988), (15, 10246), (19, 10450), (20, 10495), (21, 10513), (23, 10603), (24, 10708),

Gene: Patos_14 Start: 10407, Stop: 11195, Start Num: 13

Candidate Starts for Patos_14:

(Start: 12 @10353 has 1 MA's), (Start: 13 @10407 has 23 MA's), (14, 10416), (15, 10674), (19, 10878), (20, 10923), (21, 10941), (23, 11031), (24, 11136),

Gene: Ranch_13 Start: 9348, Stop: 10133, Start Num: 13

Candidate Starts for Ranch_13:

(Start: 12 @9294 has 1 MA's), (Start: 13 @9348 has 23 MA's), (14, 9357), (15, 9612), (19, 9816), (20, 9861), (21, 9879), (23, 9969), (24, 10074),

Gene: Rumi_12 Start: 8415, Stop: 9203, Start Num: 13

Candidate Starts for Rumi_12:

(11, 8328), (Start: 12 @8361 has 1 MA's), (Start: 13 @8415 has 23 MA's), (14, 8424), (15, 8682), (19, 8886), (20, 8931), (21, 8949), (23, 9039), (24, 9144), (26, 9189),

Gene: Sadboi_13 Start: 11175, Stop: 11963, Start Num: 13

Candidate Starts for Sadboi_13:

(11, 11088), (Start: 12 @11121 has 1 MA's), (Start: 13 @11175 has 23 MA's), (14, 11184), (15, 11442), (19, 11646), (20, 11691), (21, 11709), (23, 11799), (24, 11904),

Gene: Sampudon_14 Start: 11351, Stop: 12139, Start Num: 13

Candidate Starts for Sampudon_14:

(Start: 12 @11297 has 1 MA's), (Start: 13 @11351 has 23 MA's), (14, 11360), (15, 11618), (19, 11822), (20, 11867), (21, 11885), (23, 11975), (24, 12080),

Gene: Tillicus_14 Start: 9713, Stop: 10513, Start Num: 13

Candidate Starts for Tillicus_14:

(Start: 13 @9713 has 23 MA's), (14, 9722), (15, 9977), (17, 10085), (19, 10184), (20, 10229), (21, 10247), (24, 10454),

Gene: Wojtek_12 Start: 10037, Stop: 10840, Start Num: 13

Candidate Starts for Wojtek_12:

(Start: 13 @10037 has 23 MA's), (14, 10046), (15, 10304), (17, 10412), (19, 10511), (20, 10556), (21, 10574), (24, 10781),

Gene: Xenia2_11 Start: 10096, Stop: 10884, Start Num: 13

Candidate Starts for Xenia2_11:

(Start: 13 @10096 has 23 MA's), (15, 10360), (16, 10384), (18, 10507), (21, 10624), (23, 10714), (24, 10825), (25, 10849),

Gene: Yikes_14 Start: 11385, Stop: 12224, Start Num: 12

Candidate Starts for Yikes_14:

(Start: 12 @11385 has 1 MA's), (Start: 13 @11439 has 23 MA's), (14, 11448), (15, 11703), (19, 11907), (20, 11952), (21, 11970), (23, 12060), (24, 12165),

Gene: Zany_13 Start: 10565, Stop: 11353, Start Num: 13

Candidate Starts for Zany_13:

(Start: 12 @10511 has 1 MA's), (Start: 13 @10565 has 23 MA's), (14, 10574), (15, 10832), (19, 11036), (20, 11081), (21, 11099), (23, 11189), (24, 11294),