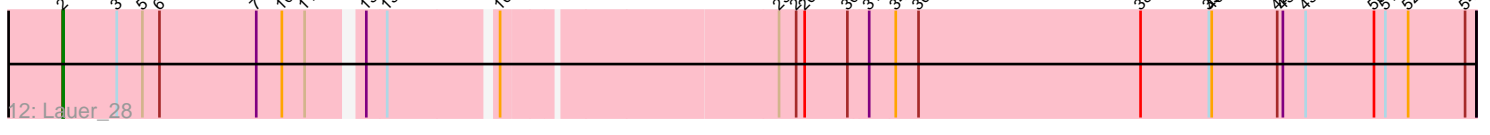
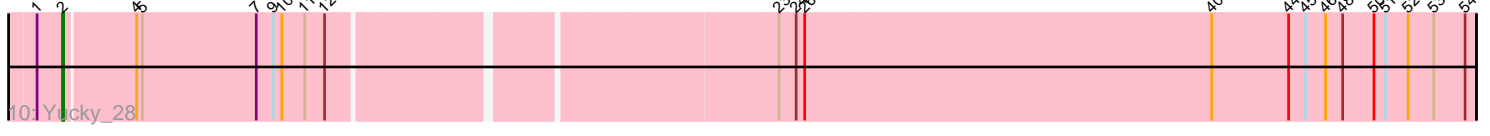
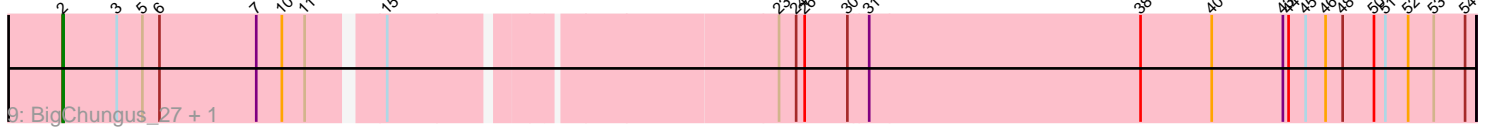
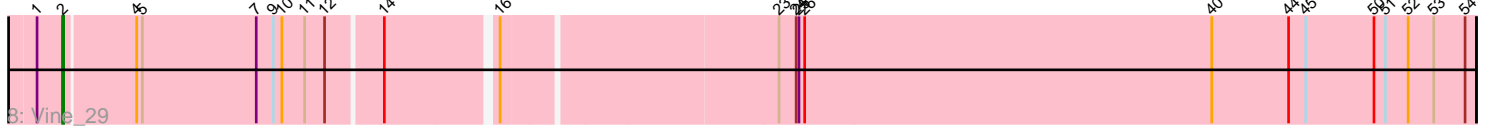
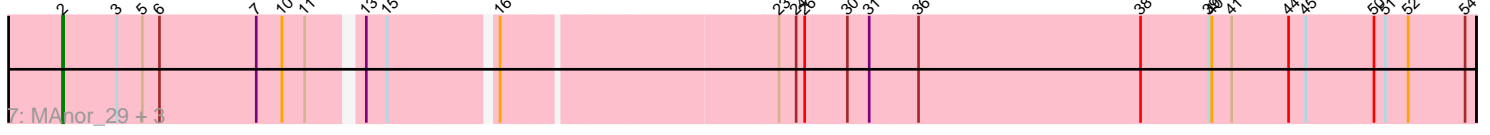
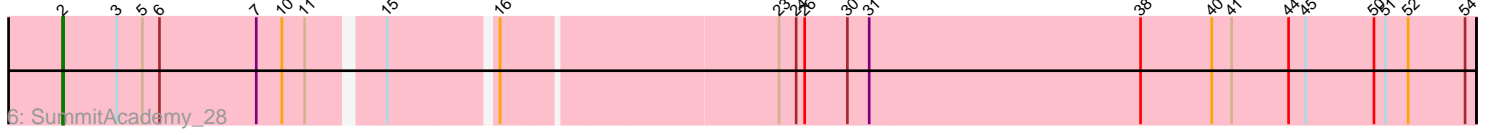
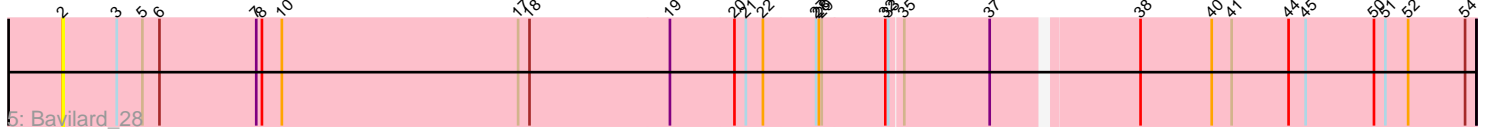
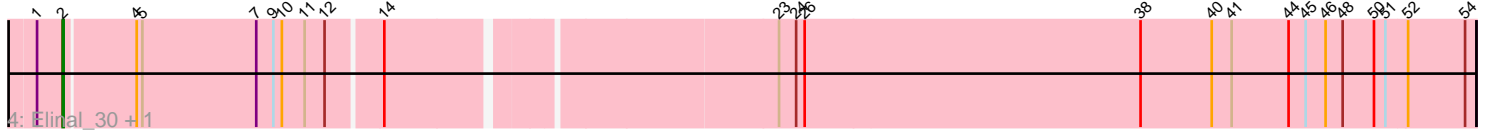
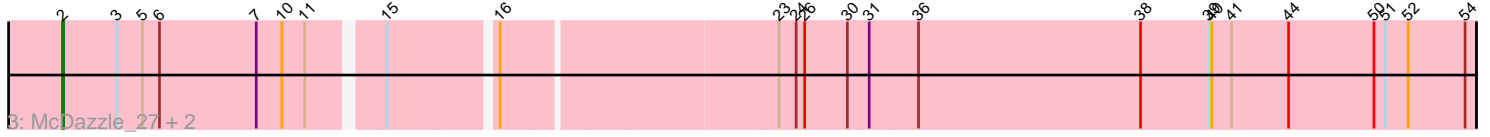
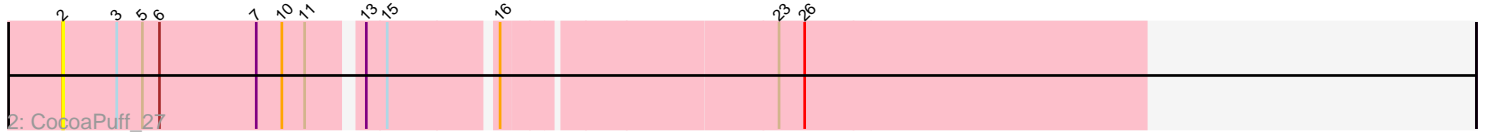
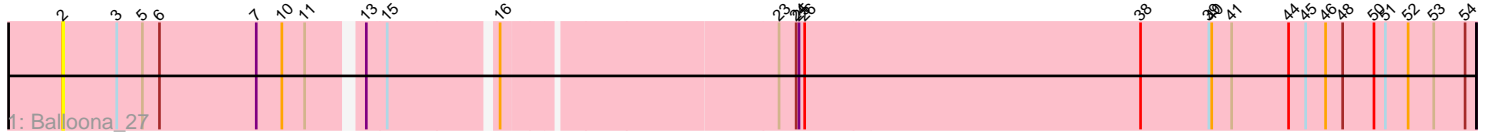


Pham 295116



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 295116 Report

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

Pham number 295116 has 19 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Balloona\_27
- Track 2 : CocoaPuff\_27
- Track 3 : McDazzle\_27, SheckWes\_28, ElJefes\_27
- Track 4 : Elinal\_30, KayGee\_29
- Track 5 : Bavidard\_28
- Track 6 : SummitAcademy\_28
- Track 7 : MAnor\_29, Pons\_29, Mayweather\_30, Tarnish\_28
- Track 8 : Vine\_29
- Track 9 : BigChungus\_27, Feastonyeet\_27
- Track 10 : Yucky\_28
- Track 11 : CherryonLim\_30
- Track 12 : Lauer\_28

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

The start number called the most often in the published annotations is 2, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Balloona\_27, Bavidard\_28, BigChungus\_27, CherryonLim\_30, CocoaPuff\_27, ElJefes\_27, Elinal\_30, Feastonyeet\_27, KayGee\_29, Lauer\_28, MAnor\_29, Mayweather\_30, McDazzle\_27, Pons\_29, SheckWes\_28, SummitAcademy\_28, Tarnish\_28, Vine\_29, Yucky\_28,

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 2:

- Found in 19 of 19 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Balloona\_27 (CT), Bavidard\_28 (CT), BigChungus\_27 (CT), CherryonLim\_30 (CT), CocoaPuff\_27 (CT), ElJefes\_27 (CT), Elinal\_30 (CT), Feastonyeet\_27 (CT), KayGee\_29 (CT), Lauer\_28 (CT), MAnor\_29 (CT), Mayweather\_30 (CT), McDazzle\_27 (CT), Pons\_29 (CT), SheckWes\_28 (CT), SummitAcademy\_28 (CT), Tarnish\_28 (CT), Vine\_29 (CT), Yucky\_28 (CT),

### Summary by clusters:

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 2 was manually annotated 13 times for cluster CT.

### Gene Information:

Gene: Balloona\_27 Start: 21832, Stop: 23265, Start Num: 2

Candidate Starts for Balloona\_27:

(Start: 2 @21832 has 13 MA's), (3, 21889), (5, 21916), (6, 21934), (7, 22036), (10, 22063), (11, 22087), (13, 22135), (15, 22156), (16, 22261), (23, 22534), (24, 22552), (25, 22555), (26, 22561), (38, 22912), (39, 22984), (40, 22987), (41, 23008), (44, 23068), (45, 23086), (46, 23107), (48, 23125), (50, 23158), (51, 23170), (52, 23194), (53, 23221), (54, 23254),

Gene: Bavidard\_28 Start: 22617, Stop: 24077, Start Num: 2

Candidate Starts for Bavidard\_28:

(Start: 2 @22617 has 13 MA's), (3, 22674), (5, 22701), (6, 22719), (7, 22821), (8, 22827), (10, 22848), (17, 23097), (18, 23109), (19, 23256), (20, 23322), (21, 23334), (22, 23352), (27, 23406), (28, 23409), (29, 23412), (32, 23478), (33, 23481), (35, 23493), (37, 23583), (38, 23724), (40, 23799), (41, 23820), (44, 23880), (45, 23898), (50, 23970), (51, 23982), (52, 24006), (54, 24066),

Gene: BigChungus\_27 Start: 21875, Stop: 23308, Start Num: 2

Candidate Starts for BigChungus\_27:

(Start: 2 @21875 has 13 MA's), (3, 21932), (5, 21959), (6, 21977), (7, 22079), (10, 22106), (11, 22130), (15, 22199), (23, 22577), (24, 22595), (26, 22604), (30, 22649), (31, 22670), (38, 22955), (40, 23030), (43, 23105), (44, 23111), (45, 23129), (46, 23150), (48, 23168), (50, 23201), (51, 23213), (52, 23237), (53, 23264), (54, 23297),

Gene: CherryonLim\_30 Start: 23612, Stop: 25042, Start Num: 2

Candidate Starts for CherryonLim\_30:

(Start: 2 @23612 has 13 MA's), (3, 23669), (5, 23696), (6, 23714), (7, 23816), (10, 23843), (11, 23867), (15, 23936), (16, 24041), (23, 24314), (24, 24332), (26, 24341), (30, 24386), (31, 24407), (38, 24692), (39, 24764), (42, 24836), (43, 24842), (45, 24866), (47, 24896), (48, 24905), (49, 24929), (50, 24938), (51, 24950), (52, 24971), (54, 25031),

Gene: CocoaPuff\_27 Start: 21829, Stop: 22914, Start Num: 2

Candidate Starts for CocoaPuff\_27:

(Start: 2 @21829 has 13 MA's), (3, 21886), (5, 21913), (6, 21931), (7, 22033), (10, 22060), (11, 22084), (13, 22132), (15, 22153), (16, 22258), (23, 22531), (26, 22558),

Gene: ElJefes\_27 Start: 22308, Stop: 23741, Start Num: 2

Candidate Starts for ElJefes\_27:

(Start: 2 @22308 has 13 MA's), (3, 22365), (5, 22392), (6, 22410), (7, 22512), (10, 22539), (11, 22563), (15, 22632), (16, 22737), (23, 23010), (24, 23028), (26, 23037), (30, 23082), (31, 23103), (36, 23154), (38, 23388), (39, 23460), (40, 23463), (41, 23484), (44, 23544), (50, 23634), (51, 23646), (52, 23670), (54, 23730),

Gene: Elinal\_30 Start: 22849, Stop: 24279, Start Num: 2

Candidate Starts for Elinal\_30:

(1, 22822), (Start: 2 @22849 has 13 MA's), (4, 22921), (5, 22924), (7, 23044), (9, 23062), (10, 23071), (11, 23095), (12, 23116), (14, 23170), (23, 23551), (24, 23569), (26, 23578), (38, 23929), (40, 24004), (41, 24025), (44, 24085), (45, 24103), (46, 24124), (48, 24142), (50, 24175), (51, 24187), (52, 24208), (54, 24268),

Gene: Feastonyeet\_27 Start: 21875, Stop: 23308, Start Num: 2

Candidate Starts for Feastonyeet\_27:

(Start: 2 @21875 has 13 MA's), (3, 21932), (5, 21959), (6, 21977), (7, 22079), (10, 22106), (11, 22130), (15, 22199), (23, 22577), (24, 22595), (26, 22604), (30, 22649), (31, 22670), (38, 22955), (40, 23030), (43, 23105), (44, 23111), (45, 23129), (46, 23150), (48, 23168), (50, 23201), (51, 23213), (52, 23237), (53, 23264), (54, 23297),

Gene: KayGee\_29 Start: 22849, Stop: 24279, Start Num: 2

Candidate Starts for KayGee\_29:

(1, 22822), (Start: 2 @22849 has 13 MA's), (4, 22921), (5, 22924), (7, 23044), (9, 23062), (10, 23071), (11, 23095), (12, 23116), (14, 23170), (23, 23551), (24, 23569), (26, 23578), (38, 23929), (40, 24004), (41, 24025), (44, 24085), (45, 24103), (46, 24124), (48, 24142), (50, 24175), (51, 24187), (52, 24208), (54, 24268),

Gene: Lauer\_28 Start: 22905, Stop: 24338, Start Num: 2

Candidate Starts for Lauer\_28:

(Start: 2 @22905 has 13 MA's), (3, 22962), (5, 22989), (6, 23007), (7, 23109), (10, 23136), (11, 23160), (13, 23208), (15, 23229), (16, 23334), (23, 23607), (24, 23625), (26, 23634), (30, 23679), (31, 23700), (34, 23727), (36, 23751), (38, 23985), (39, 24057), (40, 24060), (42, 24129), (43, 24135), (45, 24159), (50, 24231), (51, 24243), (52, 24267), (54, 24327),

Gene: MAnor\_29 Start: 22872, Stop: 24305, Start Num: 2

Candidate Starts for MAnor\_29:

(Start: 2 @22872 has 13 MA's), (3, 22929), (5, 22956), (6, 22974), (7, 23076), (10, 23103), (11, 23127), (13, 23175), (15, 23196), (16, 23301), (23, 23574), (24, 23592), (26, 23601), (30, 23646), (31, 23667), (36, 23718), (38, 23952), (39, 24024), (40, 24027), (41, 24048), (44, 24108), (45, 24126), (50, 24198), (51, 24210), (52, 24234), (54, 24294),

Gene: Mayweather\_30 Start: 23488, Stop: 24921, Start Num: 2

Candidate Starts for Mayweather\_30:

(Start: 2 @23488 has 13 MA's), (3, 23545), (5, 23572), (6, 23590), (7, 23692), (10, 23719), (11, 23743), (13, 23791), (15, 23812), (16, 23917), (23, 24190), (24, 24208), (26, 24217), (30, 24262), (31, 24283), (36, 24334), (38, 24568), (39, 24640), (40, 24643), (41, 24664), (44, 24724), (45, 24742), (50, 24814), (51, 24826), (52, 24850), (54, 24910),

Gene: McDazzle\_27 Start: 22302, Stop: 23735, Start Num: 2

Candidate Starts for McDazzle\_27:

(Start: 2 @22302 has 13 MA's), (3, 22359), (5, 22386), (6, 22404), (7, 22506), (10, 22533), (11, 22557), (15, 22626), (16, 22731), (23, 23004), (24, 23022), (26, 23031), (30, 23076), (31, 23097), (36, 23148), (38, 23382), (39, 23454), (40, 23457), (41, 23478), (44, 23538), (50, 23628), (51, 23640), (52, 23664),

(54, 23724),

Gene: Pons\_29 Start: 22861, Stop: 24294, Start Num: 2

Candidate Starts for Pons\_29:

(Start: 2 @22861 has 13 MA's), (3, 22918), (5, 22945), (6, 22963), (7, 23065), (10, 23092), (11, 23116), (13, 23164), (15, 23185), (16, 23290), (23, 23563), (24, 23581), (26, 23590), (30, 23635), (31, 23656), (36, 23707), (38, 23941), (39, 24013), (40, 24016), (41, 24037), (44, 24097), (45, 24115), (50, 24187), (51, 24199), (52, 24223), (54, 24283),

Gene: SheckWes\_28 Start: 21838, Stop: 23271, Start Num: 2

Candidate Starts for SheckWes\_28:

(Start: 2 @21838 has 13 MA's), (3, 21895), (5, 21922), (6, 21940), (7, 22042), (10, 22069), (11, 22093), (15, 22162), (16, 22267), (23, 22540), (24, 22558), (26, 22567), (30, 22612), (31, 22633), (36, 22684), (38, 22918), (39, 22990), (40, 22993), (41, 23014), (44, 23074), (50, 23164), (51, 23176), (52, 23200), (54, 23260),

Gene: SummitAcademy\_28 Start: 21914, Stop: 23344, Start Num: 2

Candidate Starts for SummitAcademy\_28:

(Start: 2 @21914 has 13 MA's), (3, 21971), (5, 21998), (6, 22016), (7, 22118), (10, 22145), (11, 22169), (15, 22238), (16, 22343), (23, 22616), (24, 22634), (26, 22643), (30, 22688), (31, 22709), (38, 22994), (40, 23069), (41, 23090), (44, 23150), (45, 23168), (50, 23240), (51, 23252), (52, 23273), (54, 23333),

Gene: Tarnish\_28 Start: 23229, Stop: 24662, Start Num: 2

Candidate Starts for Tarnish\_28:

(Start: 2 @23229 has 13 MA's), (3, 23286), (5, 23313), (6, 23331), (7, 23433), (10, 23460), (11, 23484), (13, 23532), (15, 23553), (16, 23658), (23, 23931), (24, 23949), (26, 23958), (30, 24003), (31, 24024), (36, 24075), (38, 24309), (39, 24381), (40, 24384), (41, 24405), (44, 24465), (45, 24483), (50, 24555), (51, 24567), (52, 24591), (54, 24651),

Gene: Vine\_29 Start: 22832, Stop: 24265, Start Num: 2

Candidate Starts for Vine\_29:

(1, 22805), (Start: 2 @22832 has 13 MA's), (4, 22904), (5, 22907), (7, 23027), (9, 23045), (10, 23054), (11, 23078), (12, 23099), (14, 23153), (16, 23261), (23, 23534), (24, 23552), (25, 23555), (26, 23561), (40, 23987), (44, 24068), (45, 24086), (50, 24158), (51, 24170), (52, 24194), (53, 24221), (54, 24254),

Gene: Yucky\_28 Start: 22691, Stop: 24124, Start Num: 2

Candidate Starts for Yucky\_28:

(1, 22664), (Start: 2 @22691 has 13 MA's), (4, 22763), (5, 22766), (7, 22886), (9, 22904), (10, 22913), (11, 22937), (12, 22958), (23, 23393), (24, 23411), (26, 23420), (40, 23846), (44, 23927), (45, 23945), (46, 23966), (48, 23984), (50, 24017), (51, 24029), (52, 24053), (53, 24080), (54, 24113),