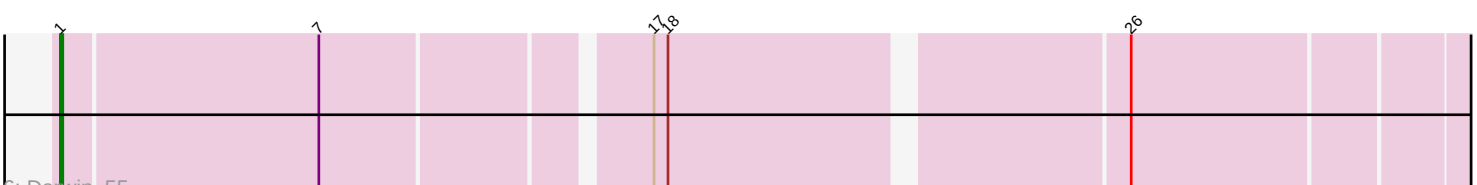
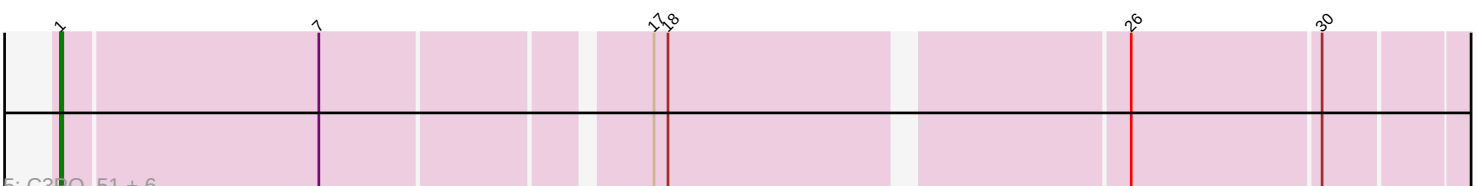
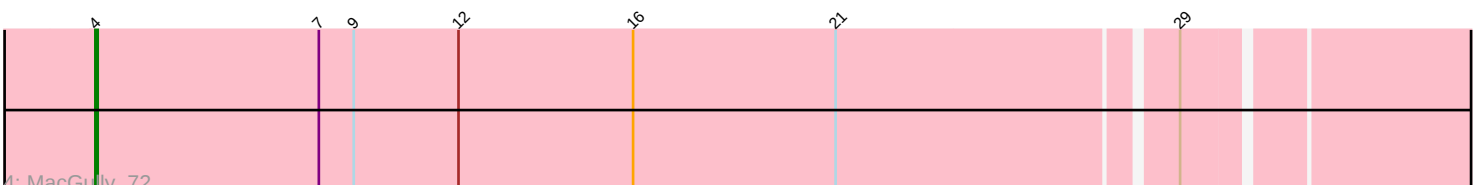
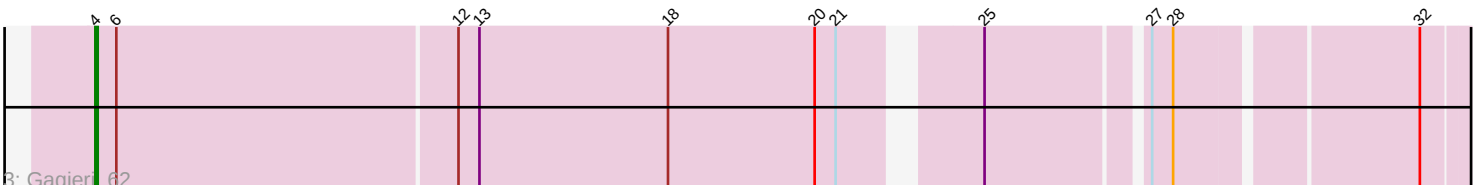
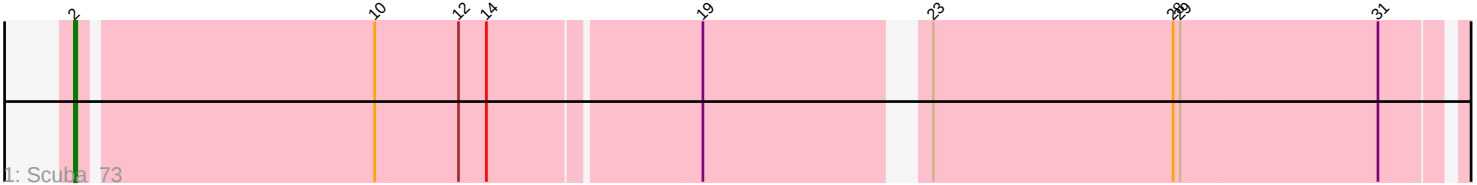


Zoomed Pham 331310



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 331310 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331310 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Scuba_73
- Track 2 : Apiary_63, Polyyuki_63, CoffeeBean_63, Braxoaddie_63, Maselop_63
- Track 3 : Gagieri_62
- Track 4 : MacGully_72
- Track 5 : C3PO_51, Kimchi1738_52, PotatoChip_53, Zion_53, PeteyPab_52, Stickynote_53, Cruella_51
- Track 6 : Darwin_55
- Track 7 : Gallia_66
- Track 8 : P1201_69

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

The start number called the most often in the published annotations is 1, it was called in 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- C3PO_51, Cruella_51, Darwin_55, Gallia_66, Kimchi1738_52, P1201_69, PeteyPab_52, PotatoChip_53, Stickynote_53, Zion_53,

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

-

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

- Apiary_63, Braxoaddie_63, CoffeeBean_63, Gagieri_62, MacGully_72, Maselop_63, Polyyuki_63, Scuba_73,

Summary by start number:

Start 1:

- Found in 10 of 18 (55.6%) of genes in pham
- Manual Annotations of this start: 8 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_51 (EN), Cruella_51 (EN), Darwin_55 (EN), Gallia_66 (singleton), Kimchi1738_52 (EN), P1201_69 (singleton),

PeteyPab_52 (EN), PotatoChip_53 (EN), Stickynote_53 (EN), Zion_53 (EN),

Start 2:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Scuba_73 (CR5),

Start 4:

- Found in 7 of 18 (38.9%) of genes in pham
- Manual Annotations of this start: 7 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apiary_63 (CR6), Braxoaddie_63 (CR6), CoffeeBean_63 (CR6), Gagieri_62 (CR6), MacGully_72 (CR7), Maselop_63 (CR6), Polyyuki_63 (CR6),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, EN, CR6, CR7, CR5,

Info for manual annotations of cluster CR5:

- Start number 2 was manually annotated 1 time for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 4 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 4 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster EN:

- Start number 1 was manually annotated 8 times for cluster EN.

Gene Information:

Gene: Apiary_63 Start: 47507, Stop: 46644, Start Num: 4

Candidate Starts for Apiary_63:

(Start: 4 @47507 has 7 MA's), (6, 47498), (10, 47387), (11, 47381), (12, 47354), (13, 47345), (15, 47333), (20, 47201), (21, 47192), (25, 47144), (28, 47072), (32, 46976), (33, 46955), (39, 46850),

Gene: Braxoaddie_63 Start: 47496, Stop: 46633, Start Num: 4

Candidate Starts for Braxoaddie_63:

(Start: 4 @47496 has 7 MA's), (6, 47487), (10, 47376), (11, 47370), (12, 47343), (13, 47334), (15, 47322), (20, 47190), (21, 47181), (25, 47133), (28, 47061), (32, 46965), (33, 46944), (39, 46839),

Gene: C3PO_51 Start: 44310, Stop: 43690, Start Num: 1

Candidate Starts for C3PO_51:

(Start: 1 @44310 has 8 MA's), (7, 44202), (17, 44073), (18, 44067), (26, 43884), (30, 43806), (33, 43746), (34, 43707),

Gene: CoffeeBean_63 Start: 47454, Stop: 46591, Start Num: 4

Candidate Starts for CoffeeBean_63:

(Start: 4 @47454 has 7 MA's), (6, 47445), (10, 47334), (11, 47328), (12, 47301), (13, 47292), (15, 47280), (20, 47148), (21, 47139), (25, 47091), (28, 47019), (32, 46923), (33, 46902), (39, 46797),

Gene: Cruella_51 Start: 44310, Stop: 43690, Start Num: 1

Candidate Starts for Cruella_51:

(Start: 1 @44310 has 8 MA's), (7, 44202), (17, 44073), (18, 44067), (26, 43884), (30, 43806), (33, 43746), (34, 43707),

Gene: Darwin_55 Start: 43791, Stop: 43171, Start Num: 1

Candidate Starts for Darwin_55:

(Start: 1 @43791 has 8 MA's), (7, 43683), (17, 43554), (18, 43548), (26, 43365), (33, 43227), (34, 43188),

Gene: Gagieri_62 Start: 47543, Stop: 46830, Start Num: 4

Candidate Starts for Gagieri_62:

(Start: 4 @47543 has 7 MA's), (6, 47534), (12, 47390), (13, 47381), (18, 47300), (20, 47237), (21, 47228), (25, 47180), (27, 47117), (28, 47108), (32, 47012),

Gene: Gallia_66 Start: 51818, Stop: 51195, Start Num: 1

Candidate Starts for Gallia_66:

(Start: 1 @51818 has 8 MA's), (5, 51797), (22, 51485), (35, 51209), (36, 51203),

Gene: Kimchi1738_52 Start: 44287, Stop: 43667, Start Num: 1

Candidate Starts for Kimchi1738_52:

(Start: 1 @44287 has 8 MA's), (7, 44179), (17, 44050), (18, 44044), (26, 43861), (30, 43783), (33, 43723), (34, 43684),

Gene: MacGully_72 Start: 50738, Stop: 49836, Start Num: 4

Candidate Starts for MacGully_72:

(Start: 4 @50738 has 7 MA's), (7, 50642), (9, 50627), (12, 50582), (16, 50507), (21, 50420), (29, 50282), (37, 50075), (38, 50048), (41, 49895),

Gene: Maselop_63 Start: 47530, Stop: 46667, Start Num: 4

Candidate Starts for Maselop_63:

(Start: 4 @47530 has 7 MA's), (6, 47521), (10, 47410), (11, 47404), (12, 47377), (13, 47368), (15, 47356), (20, 47224), (21, 47215), (25, 47167), (28, 47095), (32, 46999), (33, 46978), (39, 46873),

Gene: P1201_69 Start: 52143, Stop: 51520, Start Num: 1

Candidate Starts for P1201_69:

(Start: 1 @52143 has 8 MA's), (3, 52134), (5, 52122), (8, 52023), (22, 51810), (24, 51792), (35, 51534), (36, 51528),

Gene: PeteyPab_52 Start: 44571, Stop: 43951, Start Num: 1

Candidate Starts for PeteyPab_52:

(Start: 1 @44571 has 8 MA's), (7, 44463), (17, 44334), (18, 44328), (26, 44145), (30, 44067), (33, 44007), (34, 43968),

Gene: Polyyuki_63 Start: 47519, Stop: 46656, Start Num: 4

Candidate Starts for Polyyuki_63:

(Start: 4 @47519 has 7 MA's), (6, 47510), (10, 47399), (11, 47393), (12, 47366), (13, 47357), (15, 47345), (20, 47213), (21, 47204), (25, 47156), (28, 47084), (32, 46988), (33, 46967), (39, 46862),

Gene: PotatoChip_53 Start: 44573, Stop: 43953, Start Num: 1

Candidate Starts for PotatoChip_53:

(Start: 1 @44573 has 8 MA's), (7, 44465), (17, 44336), (18, 44330), (26, 44147), (30, 44069), (33, 44009), (34, 43970),

Gene: Scuba_73 Start: 50531, Stop: 49665, Start Num: 2

Candidate Starts for Scuba_73:

(Start: 2 @50531 has 1 MA's), (10, 50408), (12, 50372), (14, 50360), (19, 50273), (23, 50189), (28, 50087), (29, 50084), (31, 50000), (40, 49772),

Gene: Stickynote_53 Start: 44577, Stop: 43957, Start Num: 1

Candidate Starts for Stickynote_53:

(Start: 1 @44577 has 8 MA's), (7, 44469), (17, 44340), (18, 44334), (26, 44151), (30, 44073), (33, 44013), (34, 43974),

Gene: Zion_53 Start: 44571, Stop: 43951, Start Num: 1

Candidate Starts for Zion_53:

(Start: 1 @44571 has 8 MA's), (7, 44463), (17, 44334), (18, 44328), (26, 44145), (30, 44067), (33, 44007), (34, 43968),