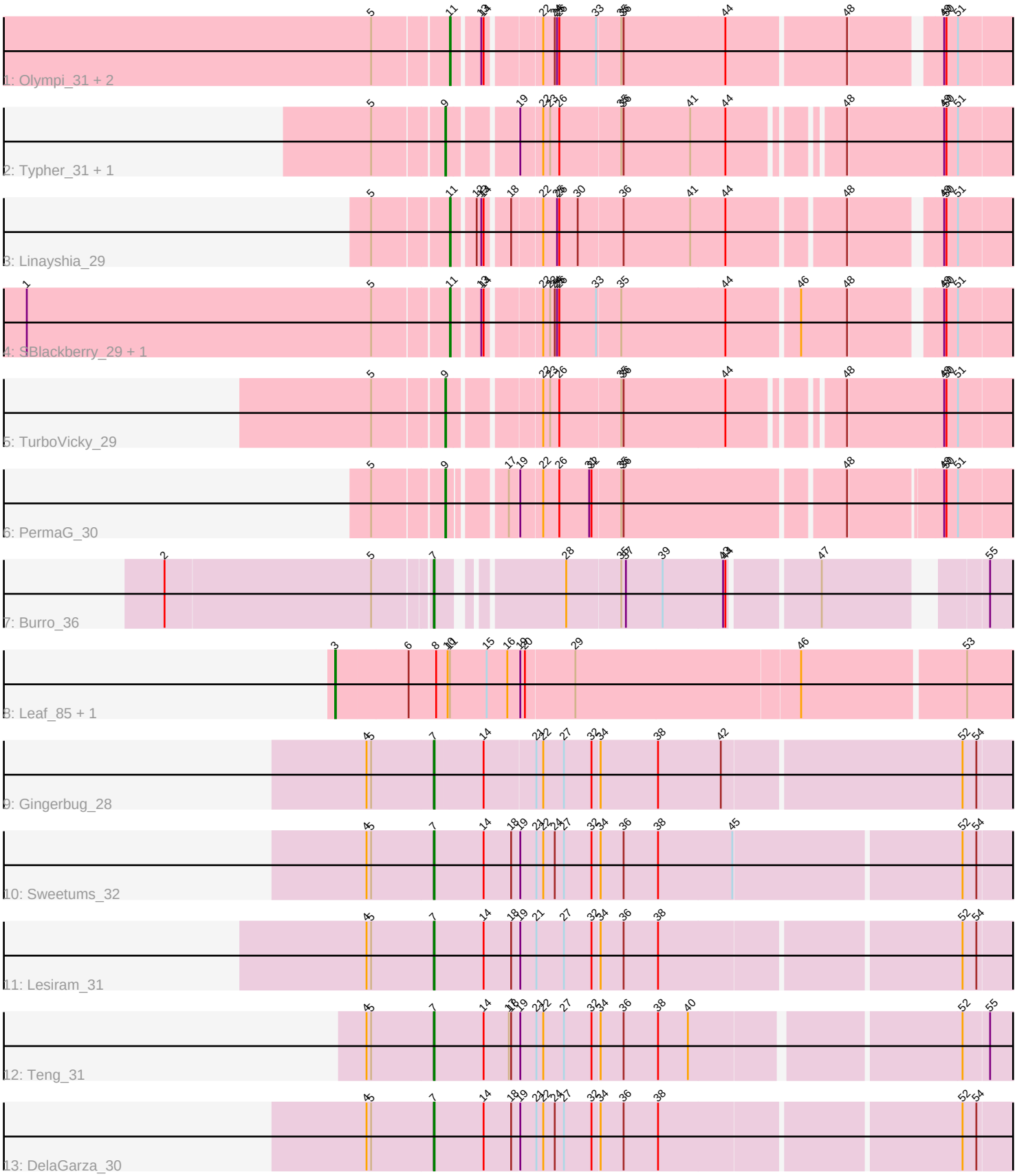
Pham 348091


1: Olympi_31 + 2
2: Typher_31 + 1
3: Linayshia_29
4: SBlackberry_29 + 1
5: TurboVicky_29
6: PermaG_30
7: Burro_36
8: Leaf_85 + 1
9: Gingerbug_28
10: Sweetums_32
11: Lesiram_31
12: Teng_31
13: DelaGarza_30

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 348091 Report

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

Pham number 348091 has 18 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Olympi_31, Goodman_30, Johann_30
• Track 2 : Typher_31, Labella_31
• Track 3 : Linayshia_29
• Track 4 : SBlackberry_29, Cicada_31
• Track 5 : TurboVicky_29
• Track 6 : PermaG_30
• Track 7 : Burro_36
• Track 8 : Leaf_85, Dewdrop_85
• Track 9 : Gingerbug_28
• Track 10 : Sweetums_32
• Track 11 : Lesiram_31
• Track 12 : Teng_31
• Track 13 : DelaGarza_30

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

The start number called the most often in the published annotations is 11, it was called in 6 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cicada_31, Goodman_30, Johann_30, Linayshia_29, Olympi_31, SBlackberry_29,

Genes that have the "Most Annotated" start but do not call it:
• Dewdrop_85, Leaf_85,

Genes that do not have the "Most Annotated" start:
• Burro_36, DelaGarza_30, Gingerbug_28, Labella_31, Lesiram_31, PermaG_30, Sweetums_32, Teng_31, TurboVicky_29, Typher_31,

Summary by start number:

Start 3:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 17

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dewdrop_85 (GC), Leaf_85 (GC),

Start 7:
• Found in 6 of 18 (33.3%) of genes in pham
• Manual Annotations of this start: 6 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Burro_36 (EM1), DelaGarza_30 (GF), Gingerbug_28 (GF), Lesiram_31 (GF), Sweetums_32 (GF), Teng_31 (GF),

Start 9:
• Found in 4 of 18 (22.2%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Labella_31 (EJ), PermaG_30 (EJ), TurboVicky_29 (EJ), Typher_31 (EJ),

Start 11:
• Found in 8 of 18 (44.4%) of genes in pham
• Manual Annotations of this start: 6 of 17
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Cicada_31 (EJ), Goodman_30 (EJ), Johann_30 (EJ), Linayshia_29 (EJ), Olympi_31 (EJ), SBlackberry_29 (EJ),

Summary by clusters:

There are 4 clusters represented in this pham: GF, GC, EM1, EJ,

Info for manual annotations of cluster EJ:
•Start number 9 was manually annotated 3 times for cluster EJ.
•Start number 11 was manually annotated 6 times for cluster EJ.

Info for manual annotations of cluster EM1:
•Start number 7 was manually annotated 1 time for cluster EM1.

Info for manual annotations of cluster GC:
•Start number 3 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster GF:
•Start number 7 was manually annotated 5 times for cluster GF.

Gene Information:

Gene: Burro_36 Start: 42324, Stop: 42995, Start Num: 7
Candidate Starts for Burro_36:
(2, 41988), (5, 42255), (Start: 7 @42324 has 6 MA's), (28, 42462), (35, 42531), (37, 42537), (39, 42585), (43, 42663), (44, 42666), (47, 42774), (55, 42951),

Gene: Cicada_31 Start: 22012, Stop: 22719, Start Num: 11
Candidate Starts for Cicada_31:

(1, 21469), (5, 21919), (Start: 11 @22012 has 6 MA's), (13, 22045), (14, 22048), (22, 22111), (23, 22120), (24, 22126), (25, 22129), (26, 22132), (33, 22180), (35, 22210), (44, 22345), (46, 22435), (48, 22495), (49, 22600), (50, 22603), (51, 22618),

Gene: DelaGarza_30 Start: 20382, Stop: 21119, Start Num: 7
Candidate Starts for DelaGarza_30:
(4, 20295), (5, 20301), (Start: 7 @20382 has 6 MA's), (14, 20445), (18, 20481), (19, 20490), (21, 20511), (22, 20520), (24, 20535), (27, 20547), (32, 20583), (34, 20592), (36, 20622), (38, 20667), (52, 21042), (54, 21060),

Gene: Dewdrop_85 Start: 54691, Stop: 55596, Start Num: 3
Candidate Starts for Dewdrop_85:
(Start: 3 @54691 has 2 MA's), (6, 54784), (8, 54820), (10, 54835), (Start: 11 @54838 has 6 MA's), (15, 54886), (16, 54913), (19, 54928), (20, 54934), (29, 54997), (46, 55285), (53, 55492),

Gene: Gingerbug_28 Start: 20500, Stop: 21243, Start Num: 7
Candidate Starts for Gingerbug_28:
(4, 20413), (5, 20419), (Start: 7 @20500 has 6 MA's), (14, 20560), (21, 20626), (22, 20635), (27, 20662), (32, 20698), (34, 20707), (38, 20782), (42, 20863), (52, 21166), (54, 21184),

Gene: Goodman_30 Start: 21925, Stop: 22632, Start Num: 11
Candidate Starts for Goodman_30:
(5, 21832), (Start: 11 @21925 has 6 MA's), (13, 21958), (14, 21961), (22, 22024), (24, 22039), (25, 22042), (26, 22045), (33, 22093), (35, 22123), (36, 22126), (44, 22258), (48, 22408), (49, 22513), (50, 22516), (51, 22531),

Gene: Johann_30 Start: 21925, Stop: 22632, Start Num: 11
Candidate Starts for Johann_30:
(5, 21832), (Start: 11 @21925 has 6 MA's), (13, 21958), (14, 21961), (22, 22024), (24, 22039), (25, 22042), (26, 22045), (33, 22093), (35, 22123), (36, 22126), (44, 22258), (48, 22408), (49, 22513), (50, 22516), (51, 22531),

Gene: Labella_31 Start: 21941, Stop: 22642, Start Num: 9
Candidate Starts for Labella_31:
(5, 21854), (Start: 9 @21941 has 3 MA's), (19, 22016), (22, 22043), (23, 22052), (26, 22064), (35, 22142), (36, 22145), (41, 22232), (44, 22277), (48, 22400), (49, 22523), (50, 22526), (51, 22541),

Gene: Leaf_85 Start: 54691, Stop: 55596, Start Num: 3
Candidate Starts for Leaf_85:
(Start: 3 @54691 has 2 MA's), (6, 54784), (8, 54820), (10, 54835), (Start: 11 @54838 has 6 MA's), (15, 54886), (16, 54913), (19, 54928), (20, 54934), (29, 54997), (46, 55285), (53, 55492),

Gene: Lesiram_31 Start: 20354, Stop: 21091, Start Num: 7
Candidate Starts for Lesiram_31:
(4, 20267), (5, 20273), (Start: 7 @20354 has 6 MA's), (14, 20417), (18, 20453), (19, 20462), (21, 20483), (27, 20519), (32, 20555), (34, 20564), (36, 20594), (38, 20639), (52, 21014), (54, 21032),

Gene: Linayshia_29 Start: 21991, Stop: 22689, Start Num: 11
Candidate Starts for Linayshia_29:
(5, 21898), (Start: 11 @21991 has 6 MA's), (12, 22018), (13, 22024), (14, 22027), (18, 22054), (22, 22090), (25, 22108), (26, 22111), (30, 22135), (36, 22192), (41, 22279), (44, 22324), (48, 22465), (49, 22570), (50, 22573), (51, 22588),

Gene: Olympi_31 Start: 21912, Stop: 22619, Start Num: 11
Candidate Starts for Olympi_31:
(5, 21819), (Start: 11 @21912 has 6 MA's), (13, 21945), (14, 21948), (22, 22011), (24, 22026), (25, 22029), (26, 22032), (33, 22080), (35, 22110), (36, 22113), (44, 22245), (48, 22395), (49, 22500), (50, 22503), (51, 22518),

Gene: PermaG_30 Start: 21960, Stop: 22667, Start Num: 9
Candidate Starts for PermaG_30:
(5, 21873), (Start: 9 @21960 has 3 MA's), (17, 22020), (19, 22032), (22, 22059), (26, 22080), (31, 22119), (32, 22122), (35, 22158), (36, 22161), (48, 22434), (49, 22548), (50, 22551), (51, 22566),

Gene: SBlackberry_29 Start: 21790, Stop: 22497, Start Num: 11
Candidate Starts for SBlackberry_29:
(1, 21247), (5, 21697), (Start: 11 @21790 has 6 MA's), (13, 21823), (14, 21826), (22, 21889), (23, 21898), (24, 21904), (25, 21907), (26, 21910), (33, 21958), (35, 21988), (44, 22123), (46, 22213), (48, 22273), (49, 22378), (50, 22381), (51, 22396),

Gene: Sweetums_32 Start: 20466, Stop: 21212, Start Num: 7
Candidate Starts for Sweetums_32:
(4, 20379), (5, 20385), (Start: 7 @20466 has 6 MA's), (14, 20529), (18, 20565), (19, 20574), (21, 20595), (22, 20604), (24, 20619), (27, 20631), (32, 20667), (34, 20676), (36, 20706), (38, 20751), (45, 20847), (52, 21135), (54, 21153),

Gene: Teng_31 Start: 20398, Stop: 21129, Start Num: 7
Candidate Starts for Teng_31:
(4, 20311), (5, 20317), (Start: 7 @20398 has 6 MA's), (14, 20461), (17, 20494), (18, 20497), (19, 20506), (21, 20527), (22, 20536), (27, 20563), (32, 20599), (34, 20608), (36, 20638), (38, 20683), (40, 20722), (52, 21052), (55, 21085),

Gene: TurboVicky_29 Start: 21812, Stop: 22513, Start Num: 9
Candidate Starts for TurboVicky_29:
(5, 21725), (Start: 9 @21812 has 3 MA's), (22, 21914), (23, 21923), (26, 21935), (35, 22013), (36, 22016), (44, 22148), (48, 22271), (49, 22394), (50, 22397), (51, 22412),

Gene: Typher_31 Start: 21941, Stop: 22642, Start Num: 9
Candidate Starts for Typher_31:
(5, 21854), (Start: 9 @21941 has 3 MA's), (19, 22016), (22, 22043), (23, 22052), (26, 22064), (35, 22142), (36, 22145), (41, 22232), (44, 22277), (48, 22400), (49, 22523), (50, 22526), (51, 22541),