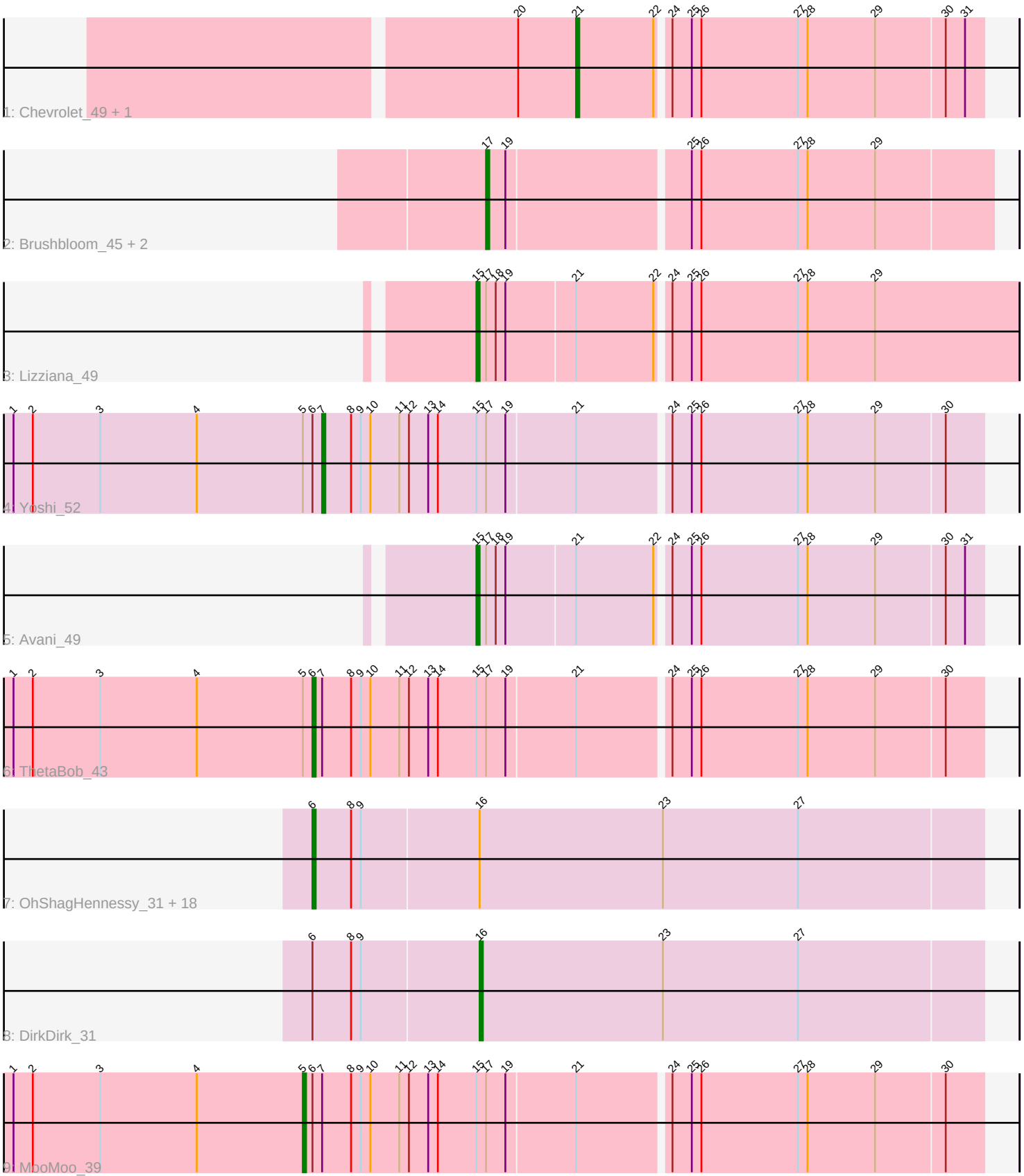
Pham 291407


1: Chevrolet_49 + 1
2: Brushbloom_45 + 2
3: Lizziana_49
4: Yoshi_52
5: Avani_49
6: ThetaBob_43
7: OhShagHennessy_31 + 18
8: DirkDirk_31
9: MooMoo_39

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 291407 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291407 has 30 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Chevrolet_49, ArcusAngelus_46
• Track 2 : Brushbloom_45, Mutaforma13_44, PhesterPhotato_43
• Track 3 : Lizziana_49
• Track 4 : Yoshi_52
• Track 5 : Avani_49
• Track 6 : ThetaBob_43
• Track 7 : OhShagHennessy_31, Rose5_31, Enceladus_31, Calm_31, Poochiewood_31, Acquire49_31, MAckerman_31, JoeDirt_31, Silverleaf_31, Appletree2_31, Tyson_31, UPIE_31, LeBron_31, Wyatt2_31, Wamburgrxpress_31, Halena_31, CicholasNage_31, Zaria_31, AvadaKedavra_31
• Track 8 : DirkDirk_31
• Track 9 : MooMoo_39

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

The start number called the most often in the published annotations is 6, it was called in 19 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_31, Appletree2_31, AvadaKedavra_31, Calm_31, CicholasNage_31, Enceladus_31, Halena_31, JoeDirt_31, LeBron_31, MAckerman_31, OhShagHennessy_31, Poochiewood_31, Rose5_31, Silverleaf_31, ThetaBob_43, Tyson_31, UPIE_31, Wamburgrxpress_31, Wyatt2_31, Zaria_31,

Genes that have the "Most Annotated" start but do not call it:
• DirkDirk_31, MooMoo_39, Yoshi_52,

Genes that do not have the "Most Annotated" start:
• ArcusAngelus_46, Avani_49, Brushbloom_45, Chevrolet_49, Lizziana_49, Mutaforma13_44, PhesterPhotato_43,

Summary by start number:

Start 5:

• Found in 3 of 30 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 33.3% of time when present
• Phage (with cluster) where this start called: MooMoo_39 (singleton),

Start 6:
• Found in 23 of 30 (76.7%) of genes in pham
• Manual Annotations of this start: 19 of 29
• Called 87.0% of time when present
• Phage (with cluster) where this start called: Acquire49_31 (L1), Appletree2_31 (L1), AvadaKedavra_31 (L1), Calm_31 (L1), CicholasNage_31 (L1), Enceladus_31 (L1), Halena_31 (L1), JoeDirt_31 (L1), LeBron_31 (L1), MAckerman_31 (L1), OhShagHennessy_31 (L1), Poochiewood_31 (L1), Rose5_31 (L1), Silverleaf_31 (L1), ThetaBob_43 (F4), Tyson_31 (L1), UPIE_31 (L1), Wamburgrxpress_31 (L1), Wyatt2_31 (L1), Zaria_31 (L1),

Start 7:
• Found in 3 of 30 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Yoshi_52 (F2),

Start 15:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 2 of 29
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Avani_49 (F2), Lizziana_49 (F1),

Start 16:
• Found in 20 of 30 (66.7%) of genes in pham
• Manual Annotations of this start: 1 of 29
• Called 5.0% of time when present
• Phage (with cluster) where this start called: DirkDirk_31 (L1),

Start 17:
• Found in 8 of 30 (26.7%) of genes in pham
• Manual Annotations of this start: 3 of 29
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Brushbloom_45 (F1), Mutaforma13_44 (F1), PhesterPhotato_43 (F1),

Start 21:
• Found in 7 of 30 (23.3%) of genes in pham
• Manual Annotations of this start: 2 of 29
• Called 28.6% of time when present
• Phage (with cluster) where this start called: ArcusAngelus_46 (F1), Chevrolet_49 (F1),

Summary by clusters:

There are 5 clusters represented in this pham: F1, singleton, F4, F2, L1,

Info for manual annotations of cluster F1:

•Start number 15 was manually annotated 1 time for cluster F1.
•Start number 17 was manually annotated 3 times for cluster F1.
•Start number 21 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 7 was manually annotated 1 time for cluster F2.
•Start number 15 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:
•Start number 6 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster L1:
•Start number 6 was manually annotated 18 times for cluster L1.
•Start number 16 was manually annotated 1 time for cluster L1.

Gene Information:

Gene: Acquire49_31 Start: 28234, Stop: 28028, Start Num: 6
Candidate Starts for Acquire49_31:
(Start: 6 @28234 has 19 MA's), (8, 28222), (9, 28219), (Start: 16 @28183 has 1 MA's), (23, 28126), (27, 28084),

Gene: Appletree2_31 Start: 28177, Stop: 27971, Start Num: 6
Candidate Starts for Appletree2_31:
(Start: 6 @28177 has 19 MA's), (8, 28165), (9, 28162), (Start: 16 @28126 has 1 MA's), (23, 28069), (27, 28027),

Gene: ArcusAngelus_46 Start: 33985, Stop: 33863, Start Num: 21
Candidate Starts for ArcusAngelus_46:
(20, 34003), (Start: 21 @33985 has 2 MA's), (22, 33961), (24, 33958), (25, 33952), (26, 33949), (27, 33919), (28, 33916), (29, 33895), (30, 33874), (31, 33868),

Gene: AvadaKedavra_31 Start: 28244, Stop: 28038, Start Num: 6
Candidate Starts for AvadaKedavra_31:
(Start: 6 @28244 has 19 MA's), (8, 28232), (9, 28229), (Start: 16 @28193 has 1 MA's), (23, 28136), (27, 28094),

Gene: Avani_49 Start: 31816, Stop: 31664, Start Num: 15
Candidate Starts for Avani_49:
(Start: 15 @31816 has 2 MA's), (Start: 17 @31813 has 3 MA's), (18, 31810), (19, 31807), (Start: 21 @31786 has 2 MA's), (22, 31762), (24, 31759), (25, 31753), (26, 31750), (27, 31720), (28, 31717), (29, 31696), (30, 31675), (31, 31669),

Gene: Brushbloom_45 Start: 32635, Stop: 32483, Start Num: 17
Candidate Starts for Brushbloom_45:
(Start: 17 @32635 has 3 MA's), (19, 32629), (25, 32575), (26, 32572), (27, 32542), (28, 32539), (29, 32518),

Gene: Calm_31 Start: 28249, Stop: 28043, Start Num: 6
Candidate Starts for Calm_31:

(Start: 6 @28249 has 19 MA's), (8, 28237), (9, 28234), (Start: 16 @28198 has 1 MA's), (23, 28141), (27, 28099),

Gene: Chevrolet_49 Start: 33986, Stop: 33864, Start Num: 21
Candidate Starts for Chevrolet_49:
(20, 34004), (Start: 21 @33986 has 2 MA's), (22, 33962), (24, 33959), (25, 33953), (26, 33950), (27, 33920), (28, 33917), (29, 33896), (30, 33875), (31, 33869),

Gene: CicholasNage_31 Start: 28236, Stop: 28030, Start Num: 6
Candidate Starts for CicholasNage_31:
(Start: 6 @28236 has 19 MA's), (8, 28224), (9, 28221), (Start: 16 @28185 has 1 MA's), (23, 28128), (27, 28086),

Gene: DirkDirk_31 Start: 28183, Stop: 28028, Start Num: 16
Candidate Starts for DirkDirk_31:
(Start: 6 @28234 has 19 MA's), (8, 28222), (9, 28219), (Start: 16 @28183 has 1 MA's), (23, 28126), (27, 28084),

Gene: Enceladus_31 Start: 28218, Stop: 28012, Start Num: 6
Candidate Starts for Enceladus_31:
(Start: 6 @28218 has 19 MA's), (8, 28206), (9, 28203), (Start: 16 @28167 has 1 MA's), (23, 28110), (27, 28068),

Gene: Halena_31 Start: 28245, Stop: 28039, Start Num: 6
Candidate Starts for Halena_31:
(Start: 6 @28245 has 19 MA's), (8, 28233), (9, 28230), (Start: 16 @28194 has 1 MA's), (23, 28137), (27, 28095),

Gene: JoeDirt_31 Start: 28216, Stop: 28010, Start Num: 6
Candidate Starts for JoeDirt_31:
(Start: 6 @28216 has 19 MA's), (8, 28204), (9, 28201), (Start: 16 @28165 has 1 MA's), (23, 28108), (27, 28066),

Gene: LeBron_31 Start: 28260, Stop: 28054, Start Num: 6
Candidate Starts for LeBron_31:
(Start: 6 @28260 has 19 MA's), (8, 28248), (9, 28245), (Start: 16 @28209 has 1 MA's), (23, 28152), (27, 28110),

Gene: Lizziana_49 Start: 34010, Stop: 33846, Start Num: 15
Candidate Starts for Lizziana_49:
(Start: 15 @34010 has 2 MA's), (Start: 17 @34007 has 3 MA's), (18, 34004), (19, 34001), (Start: 21 @33980 has 2 MA's), (22, 33956), (24, 33953), (25, 33947), (26, 33944), (27, 33914), (28, 33911), (29, 33890),

Gene: MAckerman_31 Start: 28234, Stop: 28028, Start Num: 6
Candidate Starts for MAckerman_31:
(Start: 6 @28234 has 19 MA's), (8, 28222), (9, 28219), (Start: 16 @28183 has 1 MA's), (23, 28126), (27, 28084),

Gene: MooMoo_39 Start: 31044, Stop: 30838, Start Num: 5
Candidate Starts for MooMoo_39:
(1, 31134), (2, 31128), (3, 31107), (4, 31077), (Start: 5 @31044 has 1 MA's), (Start: 6 @31041 has 19 MA's), (Start: 7 @31038 has 1 MA's), (8, 31029), (9, 31026), (10, 31023), (11, 31014), (12, 31011), (13,

31005), (14, 31002), (Start: 15 @30990 has 2 MA's), (Start: 17 @30987 has 3 MA's), (19, 30981), (Start: 21 @30960 has 2 MA's), (24, 30933), (25, 30927), (26, 30924), (27, 30894), (28, 30891), (29, 30870), (30, 30849),

Gene: Mutaforma13_44 Start: 32959, Stop: 32807, Start Num: 17
Candidate Starts for Mutaforma13_44:
(Start: 17 @32959 has 3 MA's), (19, 32953), (25, 32899), (26, 32896), (27, 32866), (28, 32863), (29, 32842),

Gene: OhShagHennessy_31 Start: 28199, Stop: 27993, Start Num: 6
Candidate Starts for OhShagHennessy_31:
(Start: 6 @28199 has 19 MA's), (8, 28187), (9, 28184), (Start: 16 @28148 has 1 MA's), (23, 28091), (27, 28049),

Gene: PhesterPhotato_43 Start: 32683, Stop: 32531, Start Num: 17
Candidate Starts for PhesterPhotato_43:
(Start: 17 @32683 has 3 MA's), (19, 32677), (25, 32623), (26, 32620), (27, 32590), (28, 32587), (29, 32566),

Gene: Poochiewood_31 Start: 28235, Stop: 28029, Start Num: 6
Candidate Starts for Poochiewood_31:
(Start: 6 @28235 has 19 MA's), (8, 28223), (9, 28220), (Start: 16 @28184 has 1 MA's), (23, 28127), (27, 28085),

Gene: Rose5_31 Start: 28234, Stop: 28028, Start Num: 6
Candidate Starts for Rose5_31:
(Start: 6 @28234 has 19 MA's), (8, 28222), (9, 28219), (Start: 16 @28183 has 1 MA's), (23, 28126), (27, 28084),

Gene: Silverleaf_31 Start: 28234, Stop: 28028, Start Num: 6
Candidate Starts for Silverleaf_31:
(Start: 6 @28234 has 19 MA's), (8, 28222), (9, 28219), (Start: 16 @28183 has 1 MA's), (23, 28126), (27, 28084),

Gene: ThetaBob_43 Start: 31404, Stop: 31201, Start Num: 6
Candidate Starts for ThetaBob_43:
(1, 31497), (2, 31491), (3, 31470), (4, 31440), (Start: 5 @31407 has 1 MA's), (Start: 6 @31404 has 19 MA's), (Start: 7 @31401 has 1 MA's), (8, 31392), (9, 31389), (10, 31386), (11, 31377), (12, 31374), (13, 31368), (14, 31365), (Start: 15 @31353 has 2 MA's), (Start: 17 @31350 has 3 MA's), (19, 31344), (Start: 21 @31323 has 2 MA's), (24, 31296), (25, 31290), (26, 31287), (27, 31257), (28, 31254), (29, 31233), (30, 31212),

Gene: Tyson_31 Start: 28234, Stop: 28028, Start Num: 6
Candidate Starts for Tyson_31:
(Start: 6 @28234 has 19 MA's), (8, 28222), (9, 28219), (Start: 16 @28183 has 1 MA's), (23, 28126), (27, 28084),

Gene: UPIE_31 Start: 28232, Stop: 28026, Start Num: 6
Candidate Starts for UPIE_31:
(Start: 6 @28232 has 19 MA's), (8, 28220), (9, 28217), (Start: 16 @28181 has 1 MA's), (23, 28124), (27, 28082),

Gene: Wamburgrxpress_31 Start: 28247, Stop: 28041, Start Num: 6

Candidate Starts for Wamburgrxpress_31:
(Start: 6 @28247 has 19 MA's), (8, 28235), (9, 28232), (Start: 16 @28196 has 1 MA's), (23, 28139), (27, 28097),

Gene: Wyatt2_31 Start: 28234, Stop: 28028, Start Num: 6
Candidate Starts for Wyatt2_31:
(Start: 6 @28234 has 19 MA's), (8, 28222), (9, 28219), (Start: 16 @28183 has 1 MA's), (23, 28126), (27, 28084),

Gene: Yoshi_52 Start: 32293, Stop: 32093, Start Num: 7
Candidate Starts for Yoshi_52:
(1, 32389), (2, 32383), (3, 32362), (4, 32332), (Start: 5 @32299 has 1 MA's), (Start: 6 @32296 has 19 MA's), (Start: 7 @32293 has 1 MA's), (8, 32284), (9, 32281), (10, 32278), (11, 32269), (12, 32266), (13, 32260), (14, 32257), (Start: 15 @32245 has 2 MA's), (Start: 17 @32242 has 3 MA's), (19, 32236), (Start: 21 @32215 has 2 MA's), (24, 32188), (25, 32182), (26, 32179), (27, 32149), (28, 32146), (29, 32125), (30, 32104),

Gene: Zaria_31 Start: 28249, Stop: 28043, Start Num: 6
Candidate Starts for Zaria_31:
(Start: 6 @28249 has 19 MA's), (8, 28237), (9, 28234), (Start: 16 @28198 has 1 MA's), (23, 28141), (27, 28099),