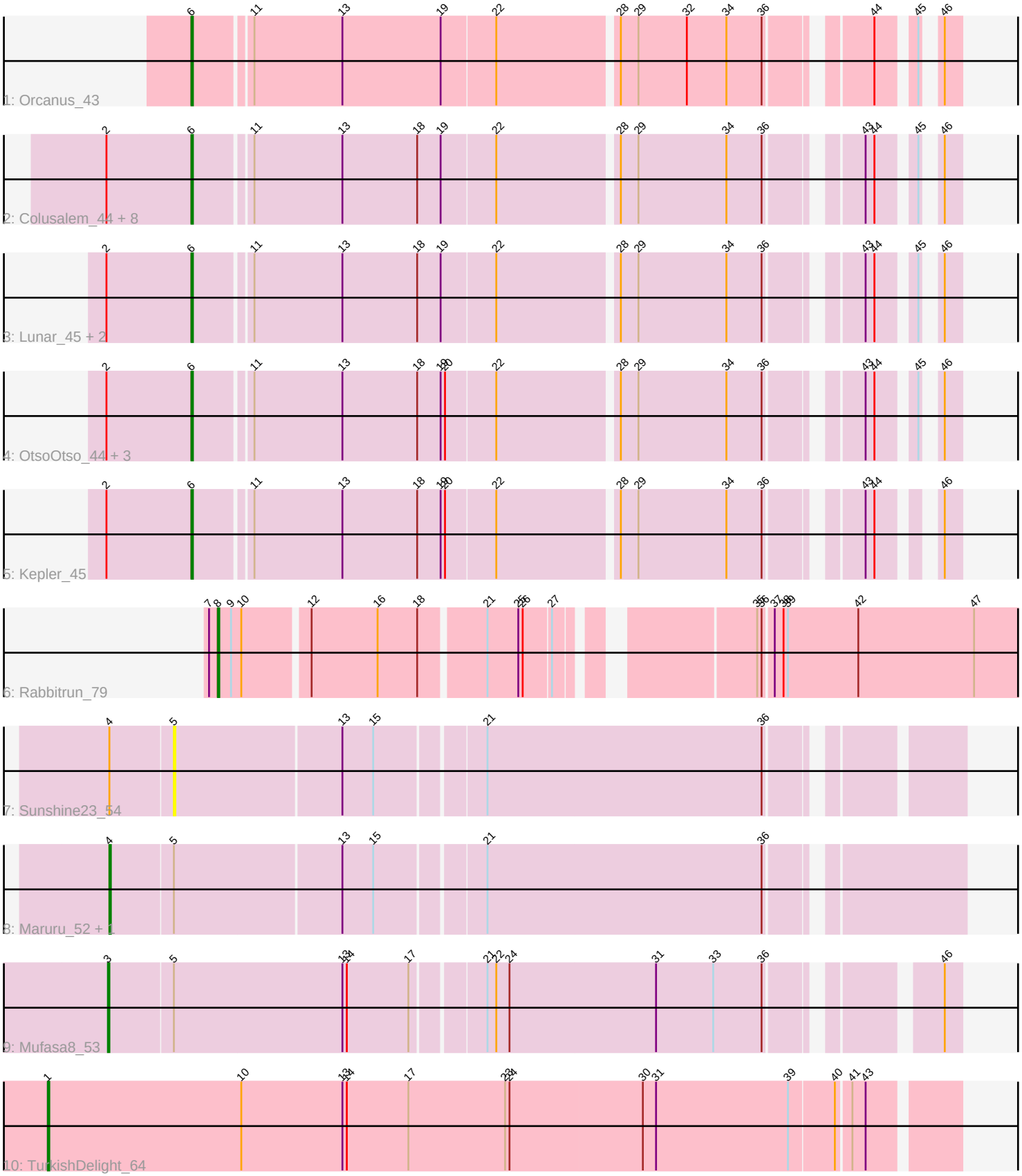
Pham 305280


1: Orcanus_43
2: Colusalem_44 + 8
3: Lunar_45 + 2
4: OtsoOtso_44 + 3
5: Kepler_45
6: Rabbitrun_79
7: Sunshine23_54
8: Maruru_52 + 1
9: Mufasa8_53
10: TurkishDelight_64

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 305280 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305280 has 24 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Orcanus_43
• Track 2 : Colusalem_44, Pineda_46, Damocles_47, Amelia_43, Jerole_44, Bibble12_47, HannahPhantana_44, Cote_45, Bedetta_48
• Track 3 : Lunar_45, Daob_45, PhirstandPhine_52
• Track 4 : OtsoOtso_44, Coral_43, Polka_43, Melons_45
• Track 5 : Kepler_45
• Track 6 : Rabbitrun_79
• Track 7 : Sunshine23_54
• Track 8 : Maruru_52, Sonali_52
• Track 9 : Mufasa8_53
• Track 10 : TurkishDelight_64

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 13 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_43, Bedetta_48, Bibble12_47, Colusalem_44, Coral_43, Cote_45, Damocles_47, Daob_45, HannahPhantana_44, Jerole_44, Kepler_45, Lunar_45, Melons_45, Orcanus_43, OtsoOtso_44, PhirstandPhine_52, Pineda_46, Polka_43,

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

Genes that do not have the "Most Annotated" start:
• Maruru_52, Mufasa8_53, Rabbitrun_79, Sonali_52, Sunshine23_54, TurkishDelight_64,

Summary by start number:

Start 1:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 18

• Called 100.0% of time when present
• Phage (with cluster) where this start called: TurkishDelight_64 (singleton),

Start 3:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mufasa8_53 (FG),

Start 4:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Maruru_52 (FG), Sonali_52 (FG),

Start 5:
• Found in 4 of 24 (16.7%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Sunshine23_54 (FG),

Start 6:
• Found in 18 of 24 (75.0%) of genes in pham
• Manual Annotations of this start: 13 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_43 (AS2), Bedetta_48 (AS2), Bibble12_47 (AS2), Colusalem_44 (AS2), Coral_43 (AS2), Cote_45 (AS2), Damocles_47 (AS2), Daob_45 (AS2), HannahPhantana_44 (AS2), Jerole_44 (AS2), Kepler_45 (AS2), Lunar_45 (AS2), Melons_45 (AS2), Orcanus_43 (AS1), OtsoOtso_44 (AS2), PhirstandPhine_52 (AS2), Pineda_46 (AS2), Polka_43 (AS2),

Start 8:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rabbitrun_79 (DU2),

Summary by clusters:

There are 5 clusters represented in this pham: AS2, DU2, singleton, AS1, FG,

Info for manual annotations of cluster AS1:
•Start number 6 was manually annotated 1 time for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 6 was manually annotated 12 times for cluster AS2.

Info for manual annotations of cluster DU2:
•Start number 8 was manually annotated 1 time for cluster DU2.

Info for manual annotations of cluster FG:
•Start number 3 was manually annotated 1 time for cluster FG.
•Start number 4 was manually annotated 2 times for cluster FG.

Gene Information:

Gene: Amelia_43 Start: 27285, Stop: 27752, Start Num: 6
Candidate Starts for Amelia_43:
(2, 27228), (Start: 6 @27285 has 13 MA's), (11, 27321), (13, 27381), (18, 27432), (19, 27447), (22, 27483), (28, 27561), (29, 27573), (34, 27633), (36, 27657), (43, 27708), (44, 27714), (45, 27735), (46, 27741),

Gene: Bedetta_48 Start: 27432, Stop: 27899, Start Num: 6
Candidate Starts for Bedetta_48:
(2, 27375), (Start: 6 @27432 has 13 MA's), (11, 27468), (13, 27528), (18, 27579), (19, 27594), (22, 27630), (28, 27708), (29, 27720), (34, 27780), (36, 27804), (43, 27855), (44, 27861), (45, 27882), (46, 27888),

Gene: Bibble12_47 Start: 27280, Stop: 27747, Start Num: 6
Candidate Starts for Bibble12_47:
(2, 27223), (Start: 6 @27280 has 13 MA's), (11, 27316), (13, 27376), (18, 27427), (19, 27442), (22, 27478), (28, 27556), (29, 27568), (34, 27628), (36, 27652), (43, 27703), (44, 27709), (45, 27730), (46, 27736),

Gene: Colusalem_44 Start: 27262, Stop: 27729, Start Num: 6
Candidate Starts for Colusalem_44:
(2, 27205), (Start: 6 @27262 has 13 MA's), (11, 27298), (13, 27358), (18, 27409), (19, 27424), (22, 27460), (28, 27538), (29, 27550), (34, 27610), (36, 27634), (43, 27685), (44, 27691), (45, 27712), (46, 27718),

Gene: Coral_43 Start: 27133, Stop: 27600, Start Num: 6
Candidate Starts for Coral_43:
(2, 27076), (Start: 6 @27133 has 13 MA's), (11, 27169), (13, 27229), (18, 27280), (19, 27295), (20, 27298), (22, 27331), (28, 27409), (29, 27421), (34, 27481), (36, 27505), (43, 27556), (44, 27562), (45, 27583), (46, 27589),

Gene: Cote_45 Start: 27610, Stop: 28077, Start Num: 6
Candidate Starts for Cote_45:
(2, 27553), (Start: 6 @27610 has 13 MA's), (11, 27646), (13, 27706), (18, 27757), (19, 27772), (22, 27808), (28, 27886), (29, 27898), (34, 27958), (36, 27982), (43, 28033), (44, 28039), (45, 28060), (46, 28066),

Gene: Damocles_47 Start: 27421, Stop: 27888, Start Num: 6
Candidate Starts for Damocles_47:
(2, 27364), (Start: 6 @27421 has 13 MA's), (11, 27457), (13, 27517), (18, 27568), (19, 27583), (22, 27619), (28, 27697), (29, 27709), (34, 27769), (36, 27793), (43, 27844), (44, 27850), (45, 27871), (46, 27877),

Gene: Daob_45 Start: 27618, Stop: 28085, Start Num: 6
Candidate Starts for Daob_45:
(2, 27561), (Start: 6 @27618 has 13 MA's), (11, 27654), (13, 27714), (18, 27765), (19, 27780), (22, 27816), (28, 27894), (29, 27906), (34, 27966), (36, 27990), (43, 28041), (44, 28047), (45, 28068), (46, 28074),

Gene: HannahPhantana_44 Start: 27280, Stop: 27747, Start Num: 6
Candidate Starts for HannahPhantana_44:
(2, 27223), (Start: 6 @27280 has 13 MA's), (11, 27316), (13, 27376), (18, 27427), (19, 27442), (22, 27478), (28, 27556), (29, 27568), (34, 27628), (36, 27652), (43, 27703), (44, 27709), (45, 27730), (46, 27736),

Gene: Jerole_44 Start: 27404, Stop: 27871, Start Num: 6
Candidate Starts for Jerole_44:
(2, 27347), (Start: 6 @27404 has 13 MA's), (11, 27440), (13, 27500), (18, 27551), (19, 27566), (22, 27602), (28, 27680), (29, 27692), (34, 27752), (36, 27776), (43, 27827), (44, 27833), (45, 27854), (46, 27860),

Gene: Kepler_45 Start: 28028, Stop: 28495, Start Num: 6
Candidate Starts for Kepler_45:
(2, 27971), (Start: 6 @28028 has 13 MA's), (11, 28064), (13, 28124), (18, 28175), (19, 28190), (20, 28193), (22, 28226), (28, 28304), (29, 28316), (34, 28376), (36, 28400), (43, 28451), (44, 28457), (46, 28484),

Gene: Lunar_45 Start: 27944, Stop: 28411, Start Num: 6
Candidate Starts for Lunar_45:
(2, 27887), (Start: 6 @27944 has 13 MA's), (11, 27980), (13, 28040), (18, 28091), (19, 28106), (22, 28142), (28, 28220), (29, 28232), (34, 28292), (36, 28316), (43, 28367), (44, 28373), (45, 28394), (46, 28400),

Gene: Maruru_52 Start: 40561, Stop: 41109, Start Num: 4
Candidate Starts for Maruru_52:
(Start: 4 @40561 has 2 MA's), (5, 40603), (13, 40714), (15, 40735), (21, 40804), (36, 40990),

Gene: Melons_45 Start: 27758, Stop: 28225, Start Num: 6
Candidate Starts for Melons_45:
(2, 27701), (Start: 6 @27758 has 13 MA's), (11, 27794), (13, 27854), (18, 27905), (19, 27920), (20, 27923), (22, 27956), (28, 28034), (29, 28046), (34, 28106), (36, 28130), (43, 28181), (44, 28187), (45, 28208), (46, 28214),

Gene: Mufasa8_53 Start: 38883, Stop: 39419, Start Num: 3
Candidate Starts for Mufasa8_53:
(Start: 3 @38883 has 1 MA's), (5, 38925), (13, 39039), (14, 39042), (17, 39084), (21, 39129), (22, 39135), (24, 39144), (31, 39243), (33, 39282), (36, 39315), (46, 39408),

Gene: Orcanus_43 Start: 29287, Stop: 29754, Start Num: 6
Candidate Starts for Orcanus_43:
(Start: 6 @29287 has 13 MA's), (11, 29323), (13, 29383), (19, 29449), (22, 29485), (28, 29563), (29, 29575), (32, 29608), (34, 29635), (36, 29659), (44, 29716), (45, 29737), (46, 29743),

Gene: OtsoOtso_44 Start: 27134, Stop: 27601, Start Num: 6
Candidate Starts for OtsoOtso_44:
(2, 27077), (Start: 6 @27134 has 13 MA's), (11, 27170), (13, 27230), (18, 27281), (19, 27296), (20, 27299), (22, 27332), (28, 27410), (29, 27422), (34, 27482), (36, 27506), (43, 27557), (44, 27563), (45, 27584), (46, 27590),

Gene: PhirstandPhine_52 Start: 27904, Stop: 28371, Start Num: 6
Candidate Starts for PhirstandPhine_52:

(2, 27847), (Start: 6 @27904 has 13 MA's), (11, 27940), (13, 28000), (18, 28051), (19, 28066), (22, 28102), (28, 28180), (29, 28192), (34, 28252), (36, 28276), (43, 28327), (44, 28333), (45, 28354), (46, 28360),

Gene: Pineda_46 Start: 27430, Stop: 27897, Start Num: 6
Candidate Starts for Pineda_46:
(2, 27373), (Start: 6 @27430 has 13 MA's), (11, 27466), (13, 27526), (18, 27577), (19, 27592), (22, 27628), (28, 27706), (29, 27718), (34, 27778), (36, 27802), (43, 27853), (44, 27859), (45, 27880), (46, 27886),

Gene: Polka_43 Start: 27134, Stop: 27601, Start Num: 6
Candidate Starts for Polka_43:
(2, 27077), (Start: 6 @27134 has 13 MA's), (11, 27170), (13, 27230), (18, 27281), (19, 27296), (20, 27299), (22, 27332), (28, 27410), (29, 27422), (34, 27482), (36, 27506), (43, 27557), (44, 27563), (45, 27584), (46, 27590),

Gene: Rabbitrun_79 Start: 48496, Stop: 48996, Start Num: 8
Candidate Starts for Rabbitrun_79:
(7, 48490), (Start: 8 @48496 has 1 MA's), (9, 48505), (10, 48511), (12, 48553), (16, 48598), (18, 48625), (21, 48667), (25, 48688), (26, 48691), (27, 48709), (35, 48820), (36, 48823), (37, 48829), (38, 48835), (39, 48838), (42, 48886), (47, 48964),

Gene: Sonali_52 Start: 41017, Stop: 41565, Start Num: 4
Candidate Starts for Sonali_52:
(Start: 4 @41017 has 2 MA's), (5, 41059), (13, 41170), (15, 41191), (21, 41260), (36, 41446),

Gene: Sunshine23_54 Start: 40949, Stop: 41446, Start Num: 5
Candidate Starts for Sunshine23_54:
(Start: 4 @40907 has 2 MA's), (5, 40949), (13, 41060), (15, 41081), (21, 41150), (36, 41336),

Gene: TurkishDelight_64 Start: 53655, Stop: 54263, Start Num: 1
Candidate Starts for TurkishDelight_64:
(Start: 1 @53655 has 1 MA's), (10, 53787), (13, 53856), (14, 53859), (17, 53901), (23, 53967), (24, 53970), (30, 54060), (31, 54069), (39, 54159), (40, 54189), (41, 54198), (43, 54207),