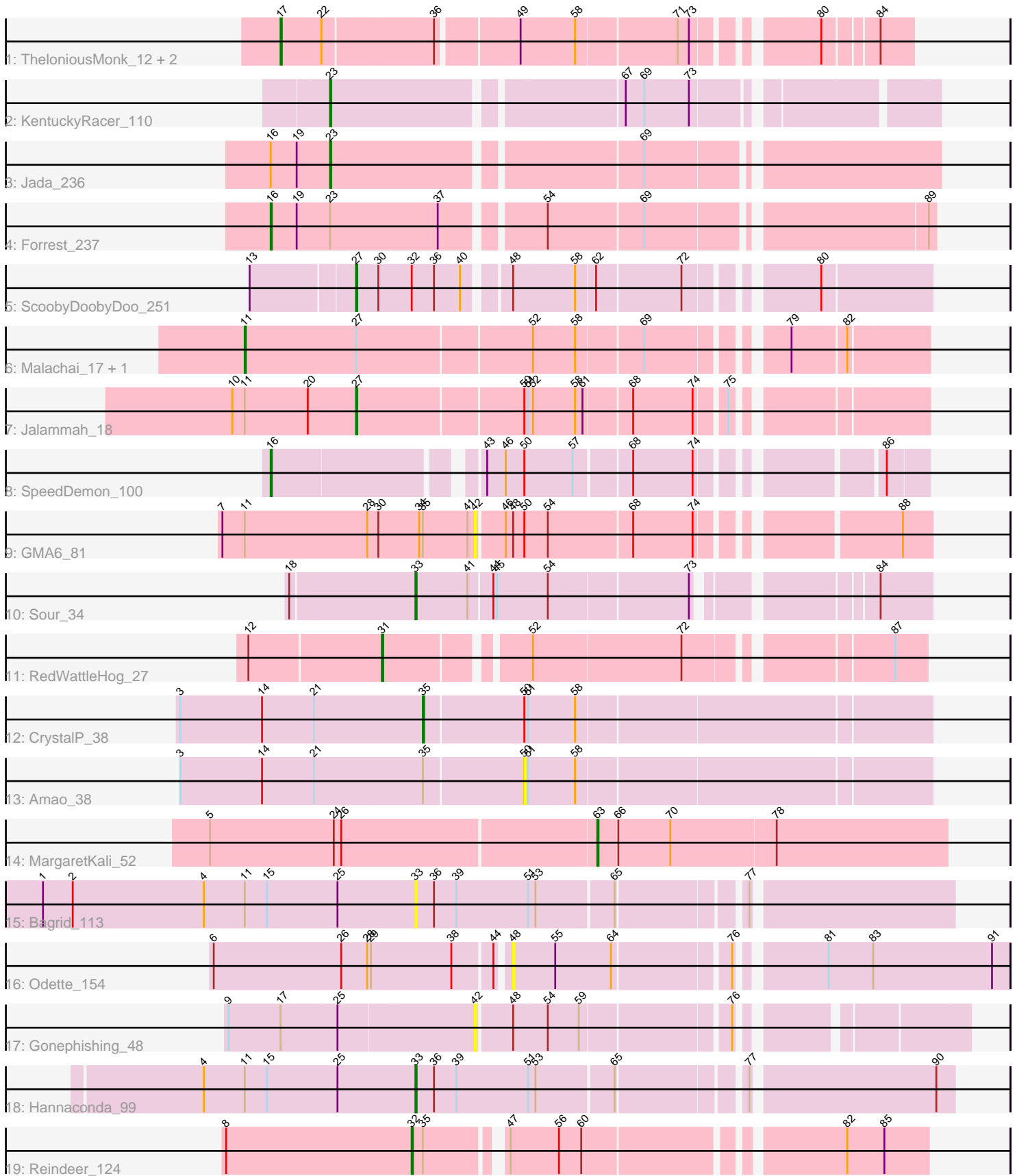# Pham 203286

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 203286 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203286 has 22 members, 5 are drafts.

Phages represented in each track:
• Track 1 : TheloniousMonk_12, Target_12, Gwendoluna_12
• Track 2 : KentuckyRacer_110
• Track 3 : Jada_236
• Track 4 : Forrest_237
• Track 5 : ScoobyDoobyDoo_251
• Track 6 : Malachai_17, Begonia_17
• Track 7 : Jalammah_18
• Track 8 : SpeedDemon_100
• Track 9 : GMA6_81
• Track 10 : Sour_34
• Track 11 : RedWattleHog_27
• Track 12 : CrystalP_38
• Track 13 : Amao_38
• Track 14 : MargaretKali_52
• Track 15 : Bagrid_113
• Track 16 : Odette_154
• Track 17 : Gonephishing_48
• Track 18 : Hannaconda_99
• Track 19 : Reindeer_124

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

The start number called the most often in the published annotations is 17, it was called in 3 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Gwendoluna_12, Target_12, TheloniousMonk_12,

Genes that have the "Most Annotated" start but do not call it:
• Gonephishing_48,

Genes that do not have the "Most Annotated" start:
• Amao_38, Bagrid_113, Begonia_17, CrystalP_38, Forrest_237, GMA6_81, Hannaconda_99, Jada_236, Jalammah_18, KentuckyRacer_110, Malachai_17,

MargaretKali_52, Odette_154, RedWattleHog_27, Reindeer_124,
ScoobyDoobyDoo_251, Sour_34, SpeedDemon_100,

Summary by start number:

Start 11:
• Found in 6 of 22 (27.3%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Begonia_17 (CV), Malachai_17 (CV),

Start 16:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Forrest_237 (BK1), SpeedDemon_100 (DL),

Start 17:
• Found in 4 of 22 (18.2%) of genes in pham
• Manual Annotations of this start: 3 of 17
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Gwendoluna_12 (A1), Target_12 (A1), TheloniousMonk_12 (A1),

Start 23:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Jada_236 (BK1), KentuckyRacer_110 (BE2),

Start 27:
• Found in 4 of 22 (18.2%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Jalammah_18 (CV), ScoobyDoobyDoo_251 (C2),

Start 31:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_27 (DX),

Start 32:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Reindeer_124 (M1),

Start 33:
• Found in 3 of 22 (13.6%) 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: Bagrid_113 (J), Hannaconda_99 (J), Sour_34 (DR),

Start 35:
• Found in 4 of 22 (18.2%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 25.0% of time when present
• Phage (with cluster) where this start called: CrystalP_38 (E),

Start 42:
• Found in 2 of 22 (9.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_81 (DQ), Gonephishing_48 (J),

Start 48:
• Found in 4 of 22 (18.2%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Odette_154 (J),

Start 50:
• Found in 5 of 22 (22.7%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Amao_38 (E),

Start 63:
• Found in 1 of 22 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MargaretKali_52 (FB),

Summary by clusters:

There are 13 clusters represented in this pham: DL, E, J, A1, FB, M1, BK1, DX, BE2, C2, DR, CV, DQ,

Info for manual annotations of cluster A1:
•Start number 17 was manually annotated 3 times for cluster A1.

Info for manual annotations of cluster BE2:
•Start number 23 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 16 was manually annotated 1 time for cluster BK1.
•Start number 23 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster C2:
•Start number 27 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CV:
•Start number 11 was manually annotated 2 times for cluster CV.
•Start number 27 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DL:
•Start number 16 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DR:
•Start number 33 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster DX:
•Start number 31 was manually annotated 1 time for cluster DX.

Info for manual annotations of cluster E:
•Start number 35 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster FB:
•Start number 63 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster J:
•Start number 33 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster M1:
•Start number 32 was manually annotated 1 time for cluster M1.

Gene Information:

Gene: Amao_38 Start: 33060, Stop: 32746, Start Num: 50
Candidate Starts for Amao_38:
(3, 33333), (14, 33267), (21, 33225), (Start: 35 @33138 has 1 MA's), (50, 33060), (51, 33057), (58, 33021),

Gene: Bagrid_113 Start: 63671, Stop: 64075, Start Num: 33
Candidate Starts for Bagrid_113:
(1, 63371), (2, 63395), (4, 63500), (Start: 11 @63533 has 2 MA's), (15, 63551), (25, 63608), (Start: 33 @63671 has 2 MA's), (36, 63686), (39, 63704), (51, 63761), (53, 63767), (65, 63827), (77, 63920),

Gene: Begonia_17 Start: 10279, Stop: 10785, Start Num: 11
Candidate Starts for Begonia_17:
(Start: 11 @10279 has 2 MA's), (Start: 27 @10369 has 2 MA's), (52, 10504), (58, 10537), (69, 10588), (79, 10681), (82, 10723),

Gene: CrystalP_38 Start: 33934, Stop: 33542, Start Num: 35
Candidate Starts for CrystalP_38:
(3, 34129), (14, 34063), (21, 34021), (Start: 35 @33934 has 1 MA's), (50, 33856), (51, 33853), (58, 33817),

Gene: Forrest_237 Start: 114096, Stop: 114590, Start Num: 16
Candidate Starts for Forrest_237:

(Start: 16 @114096 has 2 MA's), (19, 114117), (Start: 23 @114144 has 2 MA's), (37, 114231), (54, 114303), (69, 114378), (89, 114585),

Gene: GMA6_81 Start: 64168, Stop: 64497, Start Num: 42
Candidate Starts for GMA6_81:
(7, 63964), (Start: 11 @63982 has 2 MA's), (28, 64081), (30, 64090), (34, 64123), (Start: 35 @64126 has 1 MA's), (41, 64162), (42, 64168), (46, 64189), (48, 64195), (50, 64204), (54, 64222), (68, 64288), (74, 64336), (88, 64474),

Gene: Gonephishing_48 Start: 38804, Stop: 38457, Start Num: 42
Candidate Starts for Gonephishing_48:
(9, 38996), (Start: 17 @38954 has 3 MA's), (25, 38909), (42, 38804), (48, 38777), (54, 38750), (59, 38726), (76, 38615),

Gene: Gwendoluna_12 Start: 7666, Stop: 8121, Start Num: 17
Candidate Starts for Gwendoluna_12:
(Start: 17 @7666 has 3 MA's), (22, 7699), (36, 7786), (49, 7846), (58, 7888), (71, 7966), (73, 7975), (80, 8056), (84, 8095),

Gene: Hannaconda_99 Start: 57411, Stop: 57815, Start Num: 33
Candidate Starts for Hannaconda_99:
(4, 57240), (Start: 11 @57273 has 2 MA's), (15, 57291), (25, 57348), (Start: 33 @57411 has 2 MA's), (36, 57426), (39, 57444), (51, 57501), (53, 57507), (65, 57567), (77, 57660), (90, 57801),

Gene: Jada_236 Start: 113382, Stop: 113834, Start Num: 23
Candidate Starts for Jada_236:
(Start: 16 @113334 has 2 MA's), (19, 113355), (Start: 23 @113382 has 2 MA's), (69, 113616),

Gene: Jalammah_18 Start: 10634, Stop: 11050, Start Num: 27
Candidate Starts for Jalammah_18:
(10, 10535), (Start: 11 @10544 has 2 MA's), (20, 10595), (Start: 27 @10634 has 2 MA's), (50, 10763), (51, 10766), (52, 10769), (58, 10802), (61, 10808), (68, 10844), (74, 10892), (75, 10913),

Gene: KentuckyRacer_110 Start: 73819, Stop: 74262, Start Num: 23
Candidate Starts for KentuckyRacer_110:
(Start: 23 @73819 has 2 MA's), (67, 74038), (69, 74053), (73, 74089),

Gene: Malachai_17 Start: 10279, Stop: 10785, Start Num: 11
Candidate Starts for Malachai_17:
(Start: 11 @10279 has 2 MA's), (Start: 27 @10369 has 2 MA's), (52, 10504), (58, 10537), (69, 10588), (79, 10681), (82, 10723),

Gene: MargaretKali_52 Start: 31304, Stop: 31582, Start Num: 63
Candidate Starts for MargaretKali_52:
(5, 30998), (24, 31097), (26, 31103), (Start: 63 @31304 has 1 MA's), (66, 31319), (70, 31361), (78, 31445),

Gene: Odette_154 Start: 81698, Stop: 82069, Start Num: 48
Candidate Starts for Odette_154:
(6, 81470), (26, 81572), (28, 81593), (29, 81596), (38, 81659), (44, 81689), (48, 81698), (55, 81731), (64, 81776), (76, 81863), (81, 81923), (83, 81959), (91, 82055),

Gene: RedWattleHog_27 Start: 28545, Stop: 28156, Start Num: 31

Candidate Starts for RedWattleHog_27:
(12, 28650), (Start: 31 @28545 has 1 MA's), (52, 28443), (72, 28326), (87, 28179),

Gene: Reindeer_124 Start: 66316, Stop: 66687, Start Num: 32
Candidate Starts for Reindeer_124:
(8, 66166), (Start: 32 @66316 has 1 MA's), (Start: 35 @66325 has 1 MA's), (47, 66379), (56, 66418), (60, 66436), (82, 66622), (85, 66652),

Gene: ScoobyDoobyDoo_251 Start: 151338, Stop: 151754, Start Num: 27
Candidate Starts for ScoobyDoobyDoo_251:
(13, 151257), (Start: 27 @151338 has 2 MA's), (30, 151356), (Start: 32 @151383 has 1 MA's), (36, 151401), (40, 151422), (48, 151452), (58, 151500), (62, 151515), (72, 151581), (80, 151668),

Gene: Sour_34 Start: 32659, Stop: 32288, Start Num: 33
Candidate Starts for Sour_34:
(18, 32755), (Start: 33 @32659 has 2 MA's), (41, 32617), (44, 32599), (45, 32596), (54, 32557), (73, 32449), (84, 32329),

Gene: SpeedDemon_100 Start: 4893, Stop: 5351, Start Num: 16
Candidate Starts for SpeedDemon_100:
(Start: 16 @4893 has 2 MA's), (43, 5040), (46, 5055), (50, 5070), (57, 5109), (68, 5151), (74, 5199), (86, 5319),

Gene: Target_12 Start: 7244, Stop: 7699, Start Num: 17
Candidate Starts for Target_12:
(Start: 17 @7244 has 3 MA's), (22, 7277), (36, 7364), (49, 7424), (58, 7466), (71, 7544), (73, 7553), (80, 7634), (84, 7673),

Gene: TheloniousMonk_12 Start: 7471, Stop: 7926, Start Num: 17
Candidate Starts for TheloniousMonk_12:
(Start: 17 @7471 has 3 MA's), (22, 7504), (36, 7591), (49, 7651), (58, 7693), (71, 7771), (73, 7780), (80, 7861), (84, 7900),