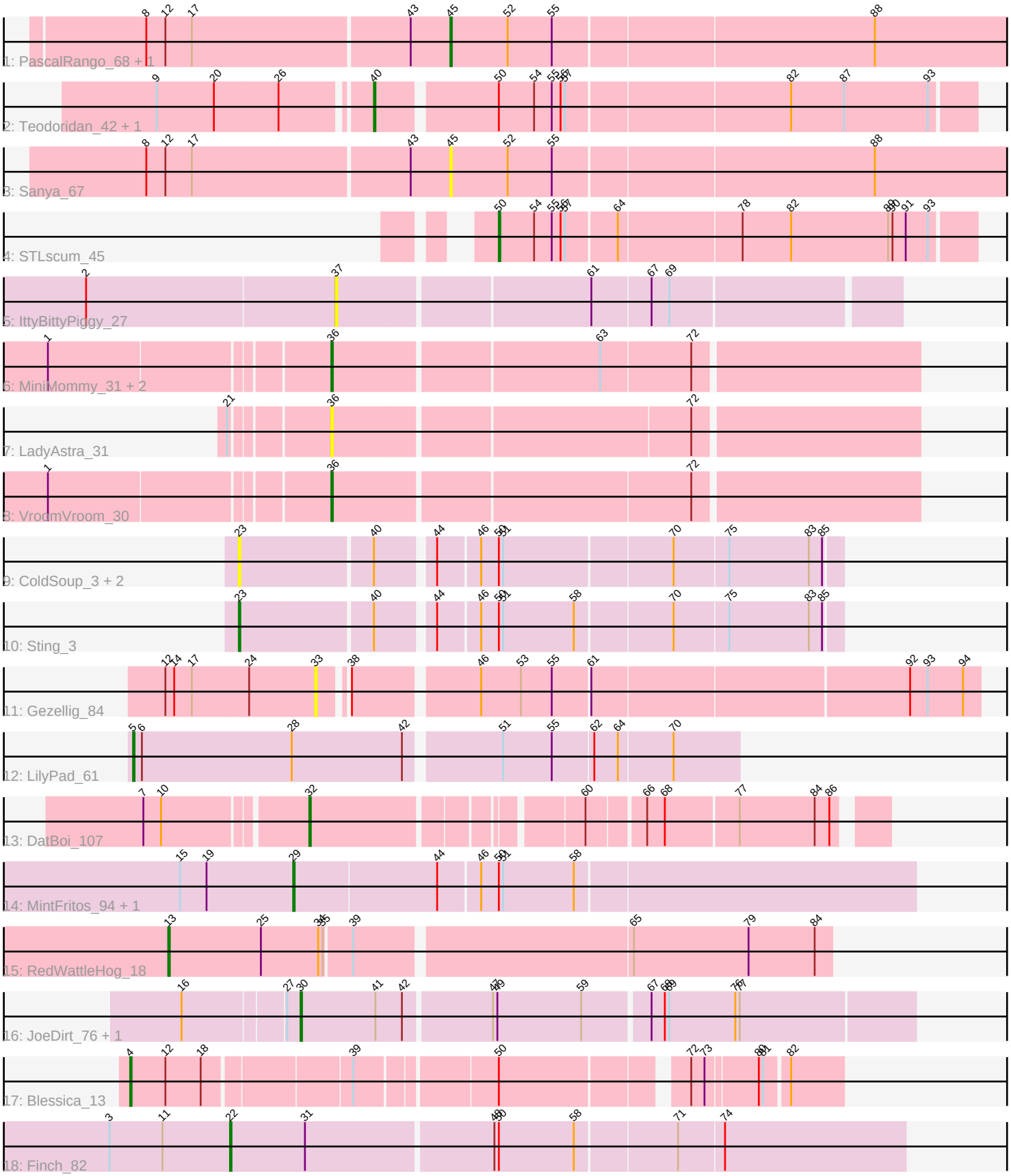
Pham 203240


1: PascalRango_68 + 1
2: Teodoridan_42 + 1
3: Sanya_67
4: STLscum_45
5: IttyBittyPiggy_27
6: MiniMommy_31 + 2
7: LadyAstra_31
8: VroomVroom_30
9: ColdSoup_3 + 2
10: Sting_3
11: Gezellig_84
12: LilyPad_61
13: DatBoi_107
14: MintFritos_94 + 1
15: RedWattleHog_18
16: JoeDirt_76 + 1
17: Blessica_13
18: Finch_82

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 203240 Report

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

Pham number 203240 has 26 members, 12 are drafts.

Phages represented in each track:
• Track 1 : PascalRango_68, GMonster_68
• Track 2 : Teodoridan_42, Ringer_45
• Track 3 : Sanya_67
• Track 4 : STLscum_45
• Track 5 : IttyBittyPiggy_27
• Track 6 : MiniMommy_31, ShakeItOph_31, JasmineDragon_30
• Track 7 : LadyAstra_31
• Track 8 : VroomVroom_30
• Track 9 : ColdSoup_3, Jollymon_3, Amo99_3
• Track 10 : Sting_3
• Track 11 : Gezellig_84
• Track 12 : LilyPad_61
• Track 13 : DatBoi_107
• Track 14 : MintFritos_94, ChisanaKitsune_96
• Track 15 : RedWattleHog_18
• Track 16 : JoeDirt_76, OhShagHennessy_74
• Track 17 : Blessica_13
• Track 18 : Finch_82

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

The start number called the most often in the published annotations is 36, it was called in 2 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• JasmineDragon_30, LadyAstra_31, MiniMommy_31, ShakeItOph_31, VroomVroom_30,

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

Genes that do not have the "Most Annotated" start:
• Amo99_3, Blessica_13, ChisanaKitsune_96, ColdSoup_3, DatBoi_107, Finch_82, GMonster_68, Gezellig_84, IttyBittyPiggy_27, JoeDirt_76, Jollymon_3, LilyPad_61,

MintFritos_94, OhShagHennessy_74, PascalRango_68, RedWattleHog_18, Ringer_45, STLscum_45, Sanya_67, Sting_3, Teodoridan_42,

Summary by start number:

Start 4:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Blessica_13 (O),

Start 5:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilyPad_61 (DG1),

Start 13:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_18 (DX),

Start 22:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_82 (singleton),

Start 23:
• Found in 4 of 26 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_3 (CP), ColdSoup_3 (CP), Jollymon_3 (CP), Sting_3 (CP),

Start 29:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChisanaKitsune_96 (DQ), MintFritos_94 (DQ),

Start 30:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JoeDirt_76 (L1), OhShagHennessy_74 (L1),

Start 32:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 14

• Called 100.0% of time when present
• Phage (with cluster) where this start called: DatBoi_107 (DL),

Start 33:
• Found in 1 of 26 (3.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gezellig_84 (DC1),

Start 36:
• Found in 5 of 26 (19.2%) of genes in pham
• Manual Annotations of this start: 2 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JasmineDragon_30 (AZ4), LadyAstra_31 (AZ4), MiniMommy_31 (AZ4), ShakeItOph_31 (AZ4), VroomVroom_30 (AZ4),

Start 37:
• Found in 1 of 26 (3.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IttyBittyPiggy_27 (AZ1),

Start 40:
• Found in 6 of 26 (23.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Ringer_45 (A1), Teodoridan_42 (A1),

Start 45:
• Found in 3 of 26 (11.5%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMonster_68 (A1), PascalRango_68 (A1), Sanya_67 (A1),

Start 50:
• Found in 11 of 26 (42.3%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 9.1% of time when present
• Phage (with cluster) where this start called: STLscum_45 (A1),

Summary by clusters:

There are 12 clusters represented in this pham: singleton, DC1, DL, O, A1, DG1, DX, L1, AZ1, CP, AZ4, DQ,

Info for manual annotations of cluster A1:
•Start number 40 was manually annotated 1 time for cluster A1.
•Start number 45 was manually annotated 1 time for cluster A1.
•Start number 50 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AZ4:
•Start number 36 was manually annotated 2 times for cluster AZ4.

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

Info for manual annotations of cluster DG1:
•Start number 5 was manually annotated 1 time for cluster DG1.

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

Info for manual annotations of cluster DQ:
•Start number 29 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DX:
•Start number 13 was manually annotated 1 time for cluster DX.

Info for manual annotations of cluster L1:
•Start number 30 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster O:
•Start number 4 was manually annotated 1 time for cluster O.

Gene Information:

Gene: Amo99_3 Start: 2875, Stop: 3255, Start Num: 23
Candidate Starts for Amo99_3:
(Start: 23 @2875 has 1 MA's), (Start: 40 @2959 has 1 MA's), (44, 2992), (46, 3019), (Start: 50 @3031 has 1 MA's), (51, 3034), (70, 3145), (75, 3181), (83, 3235), (85, 3244),

Gene: Blessica_13 Start: 5453, Stop: 5890, Start Num: 4
Candidate Starts for Blessica_13:
(Start: 4 @5453 has 1 MA's), (12, 5477), (18, 5501), (39, 5594), (Start: 50 @5681 has 1 MA's), (72, 5795), (73, 5804), (80, 5837), (81, 5840), (82, 5855),

Gene: ChisanaKitsune_96 Start: 72440, Stop: 72853, Start Num: 29
Candidate Starts for ChisanaKitsune_96:
(15, 72365), (19, 72383), (Start: 29 @72440 has 1 MA's), (44, 72536), (46, 72563), (Start: 50 @72575 has 1 MA's), (51, 72578), (58, 72626),

Gene: ColdSoup_3 Start: 2875, Stop: 3255, Start Num: 23
Candidate Starts for ColdSoup_3:
(Start: 23 @2875 has 1 MA's), (Start: 40 @2959 has 1 MA's), (44, 2992), (46, 3019), (Start: 50 @3031 has 1 MA's), (51, 3034), (70, 3145), (75, 3181), (83, 3235), (85, 3244),

Gene: DatBoi_107 Start: 69816, Stop: 70166, Start Num: 32
Candidate Starts for DatBoi_107:
(7, 69714), (10, 69726), (Start: 32 @69816 has 1 MA's), (60, 69981), (66, 70017), (68, 70029), (77, 70077), (84, 70128), (86, 70137),

Gene: Finch_82 Start: 71334, Stop: 71777, Start Num: 22
Candidate Starts for Finch_82:
(3, 71253), (11, 71289), (Start: 22 @71334 has 1 MA's), (31, 71382), (48, 71505), (Start: 50 @71508 has 1 MA's), (58, 71559), (71, 71625), (74, 71655),

Gene: GMonster_68 Start: 44686, Stop: 44306, Start Num: 45
Candidate Starts for GMonster_68:
(8, 44884), (12, 44872), (17, 44854), (43, 44713), (Start: 45 @44686 has 1 MA's), (52, 44647), (55, 44617), (88, 44404),

Gene: Gezellig_84 Start: 55587, Stop: 55165, Start Num: 33
Candidate Starts for Gezellig_84:
(12, 55686), (14, 55680), (17, 55668), (24, 55632), (33, 55587), (38, 55572), (46, 55494), (53, 55467), (55, 55446), (61, 55422), (92, 55212), (93, 55200), (94, 55176),

Gene: IttyBittyPiggy_27 Start: 22317, Stop: 22682, Start Num: 37
Candidate Starts for IttyBittyPiggy_27:
(2, 22149), (37, 22317), (61, 22482), (67, 22521), (69, 22533),

Gene: JasmineDragon_30 Start: 22617, Stop: 23000, Start Num: 36
Candidate Starts for JasmineDragon_30:
(1, 22437), (Start: 36 @22617 has 2 MA's), (63, 22791), (72, 22851),

Gene: JoeDirt_76 Start: 51825, Stop: 52229, Start Num: 30
Candidate Starts for JoeDirt_76:
(16, 51750), (27, 51816), (Start: 30 @51825 has 2 MA's), (41, 51876), (42, 51894), (47, 51951), (49, 51954), (59, 52011), (67, 52053), (68, 52062), (69, 52065), (76, 52110), (77, 52113),

Gene: Jollymon_3 Start: 2875, Stop: 3255, Start Num: 23
Candidate Starts for Jollymon_3:
(Start: 23 @2875 has 1 MA's), (Start: 40 @2959 has 1 MA's), (44, 2992), (46, 3019), (Start: 50 @3031 has 1 MA's), (51, 3034), (70, 3145), (75, 3181), (83, 3235), (85, 3244),

Gene: LadyAstra_31 Start: 22651, Stop: 23034, Start Num: 36
Candidate Starts for LadyAstra_31:
(21, 22591), (Start: 36 @22651 has 2 MA's), (72, 22885),

Gene: LilyPad_61 Start: 44847, Stop: 45245, Start Num: 5
Candidate Starts for LilyPad_61:
(Start: 5 @44847 has 1 MA's), (6, 44853), (28, 44955), (42, 45030), (51, 45090), (55, 45123), (62, 45150), (64, 45165), (70, 45201),

Gene: MiniMommy_31 Start: 22618, Stop: 23001, Start Num: 36
Candidate Starts for MiniMommy_31:
(1, 22438), (Start: 36 @22618 has 2 MA's), (63, 22792), (72, 22852),

Gene: MintFritos_94 Start: 72730, Stop: 73143, Start Num: 29
Candidate Starts for MintFritos_94:
(15, 72655), (19, 72673), (Start: 29 @72730 has 1 MA's), (44, 72826), (46, 72853), (Start: 50 @72865 has 1 MA's), (51, 72868), (58, 72916),

Gene: OhShagHennessy_74 Start: 50528, Stop: 50932, Start Num: 30

Candidate Starts for OhShagHennessy_74:
(16, 50453), (27, 50519), (Start: 30 @50528 has 2 MA's), (41, 50579), (42, 50597), (47, 50654), (49, 50657), (59, 50714), (67, 50756), (68, 50765), (69, 50768), (76, 50813), (77, 50816),

Gene: PascalRango_68 Start: 44439, Stop: 44059, Start Num: 45
Candidate Starts for PascalRango_68:
(8, 44637), (12, 44625), (17, 44607), (43, 44466), (Start: 45 @44439 has 1 MA's), (52, 44400), (55, 44370), (88, 44157),

Gene: RedWattleHog_18 Start: 21845, Stop: 22282, Start Num: 13
Candidate Starts for RedWattleHog_18:
(Start: 13 @21845 has 1 MA's), (25, 21908), (34, 21947), (35, 21950), (39, 21968), (65, 22148), (79, 22226), (84, 22271),

Gene: Ringer_45 Start: 33671, Stop: 33282, Start Num: 40
Candidate Starts for Ringer_45:
(9, 33806), (20, 33767), (26, 33725), (Start: 40 @33671 has 1 MA's), (Start: 50 @33596 has 1 MA's), (54, 33572), (55, 33560), (56, 33554), (57, 33551), (82, 33404), (87, 33368), (93, 33311),

Gene: STLscum_45 Start: 33801, Stop: 33487, Start Num: 50
Candidate Starts for STLscum_45:
(Start: 50 @33801 has 1 MA's), (54, 33777), (55, 33765), (56, 33759), (57, 33756), (64, 33723), (78, 33642), (82, 33609), (89, 33543), (90, 33540), (91, 33531), (93, 33516),

Gene: Sanya_67 Start: 45283, Stop: 44903, Start Num: 45
Candidate Starts for Sanya_67:
(8, 45481), (12, 45469), (17, 45451), (43, 45310), (Start: 45 @45283 has 1 MA's), (52, 45244), (55, 45214), (88, 45001),

Gene: ShakeItOph_31 Start: 22617, Stop: 23000, Start Num: 36
Candidate Starts for ShakeItOph_31:
(1, 22437), (Start: 36 @22617 has 2 MA's), (63, 22791), (72, 22851),

Gene: Sting_3 Start: 2872, Stop: 3252, Start Num: 23
Candidate Starts for Sting_3:
(Start: 23 @2872 has 1 MA's), (Start: 40 @2956 has 1 MA's), (44, 2989), (46, 3016), (Start: 50 @3028 has 1 MA's), (51, 3031), (58, 3079), (70, 3142), (75, 3178), (83, 3232), (85, 3241),

Gene: Teodoridan_42 Start: 32338, Stop: 31949, Start Num: 40
Candidate Starts for Teodoridan_42:
(9, 32473), (20, 32434), (26, 32392), (Start: 40 @32338 has 1 MA's), (Start: 50 @32263 has 1 MA's), (54, 32239), (55, 32227), (56, 32221), (57, 32218), (82, 32071), (87, 32035), (93, 31978),

Gene: VroomVroom_30 Start: 22712, Stop: 23095, Start Num: 36
Candidate Starts for VroomVroom_30:
(1, 22532), (Start: 36 @22712 has 2 MA's), (72, 22946),