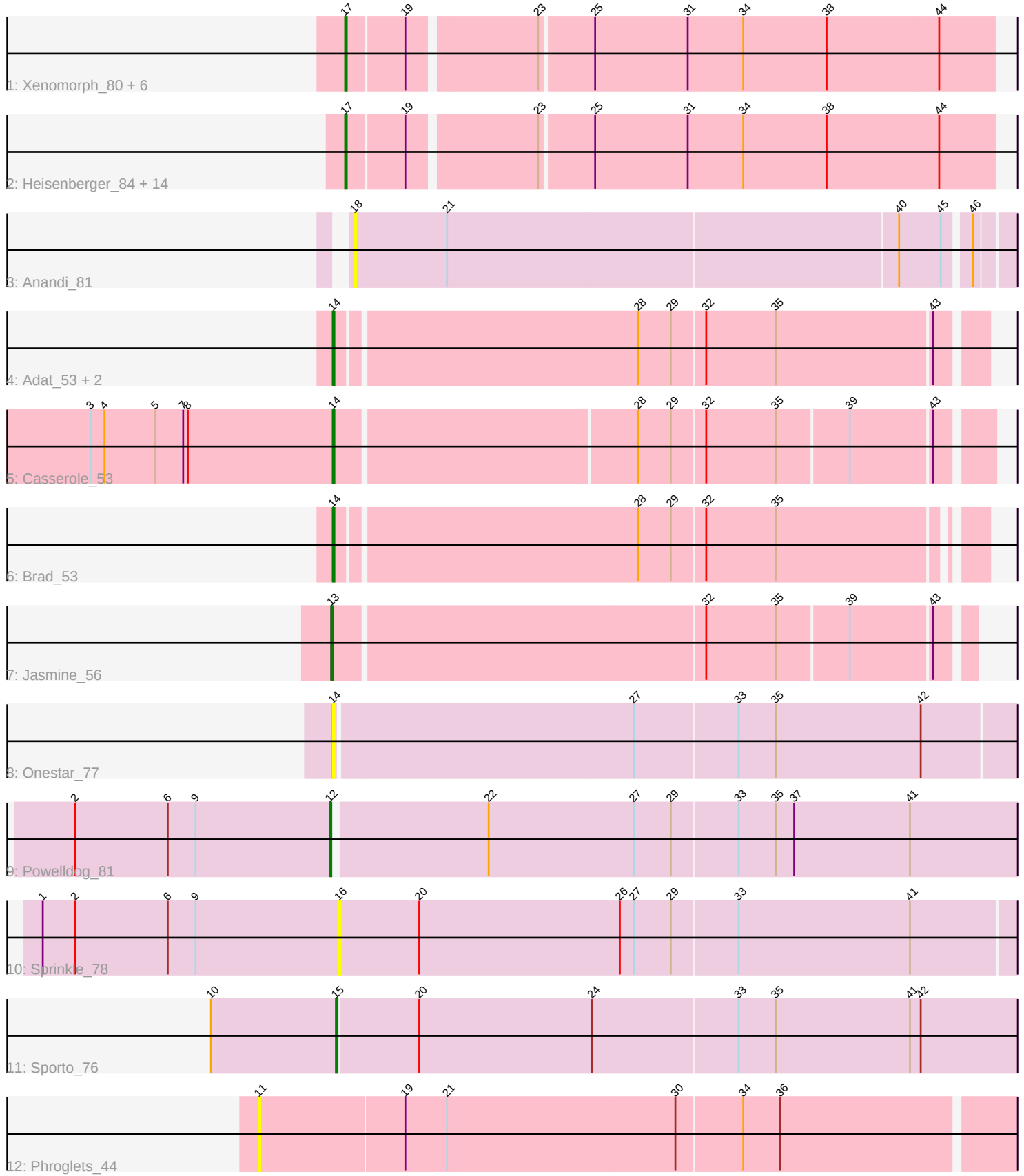


Pham 278428



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 278428 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278428 has 34 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Xenomorph_80, BenitoAntonio_85, Benllo_85, Bowling_87, GoCrazy_82, Cheesy_86, KeaneyLin_82
- Track 2 : Heisenberger_84, Elsa_85, Correa_83, Tribby_87, Mooshroom_86, Arcadia_85, Hankly_85, JEGGS_84, Mudcat_81, Dynamite_85, Circum_85, Kardesai_85, Nason_85, NapoleonB_86, YoshiYama_86
- Track 3 : Anandi_81
- Track 4 : Adat_53, Nellie_53, GurgleFerb_53
- Track 5 : Casserole_53
- Track 6 : Brad_53
- Track 7 : Jasmine_56
- Track 8 : Onestar_77
- Track 9 : Powellldog_81
- Track 10 : Sprinkle_78
- Track 11 : Sporto_76
- Track 12 : Phroglets_44

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 20 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arcadia_85, BenitoAntonio_85, Benllo_85, Bowling_87, Cheesy_86, Circum_85, Correa_83, Dynamite_85, Elsa_85, GoCrazy_82, Hankly_85, Heisenberger_84, JEGGS_84, Kardesai_85, KeaneyLin_82, Mooshroom_86, Mudcat_81, NapoleonB_86, Nason_85, Tribby_87, Xenomorph_80, YoshiYama_86,

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

-

Genes that do not have the "Most Annotated" start:

- Adat_53, Anandi_81, Brad_53, Casserole_53, GurgleFerb_53, Jasmine_56, Nellie_53, Onestar_77, Phroglets_44, Powellldog_81, Sporto_76, Sprinkle_78,

Summary by start number:

Start 11:

- Found in 1 of 34 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phroglets_44 (singleton),

Start 12:

- Found in 1 of 34 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Powelldog_81 (AW),

Start 13:

- Found in 1 of 34 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jasmine_56 (AV),

Start 14:

- Found in 6 of 34 (17.6%) of genes in pham
- Manual Annotations of this start: 5 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adat_53 (AV), Brad_53 (AV), Casserole_53 (AV), GurglerFerb_53 (AV), Nellie_53 (AV), Onestar_77 (AW),

Start 15:

- Found in 1 of 34 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sporto_76 (AW),

Start 16:

- Found in 1 of 34 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sprinkle_78 (AW),

Start 17:

- Found in 22 of 34 (64.7%) of genes in pham
- Manual Annotations of this start: 20 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arcadia_85 (AM), BenitoAntonio_85 (AM), Benllo_85 (AM), Bowling_87 (AM), Cheesy_86 (AM), Circum_85 (AM), Correa_83 (AM), Dynamite_85 (AM), Elsa_85 (AM), GoCrazy_82 (AM), Hankly_85 (AM), Heisenberger_84 (AM), JEGGS_84 (AM), Kardesai_85 (AM), KeaneyLin_82 (AM), Mooshroom_86 (AM), Mudcat_81 (AM), NapoleonB_86 (AM), Nason_85 (AM), Tribby_87 (AM), Xenomorph_80 (AM), YoshiYama_86 (AM),

Start 18:

- Found in 1 of 34 (2.9%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anandi_81 (AU4),

Summary by clusters:

There are 5 clusters represented in this pham: singleton, AM, AU4, AW, AV,

Info for manual annotations of cluster AM:

- Start number 17 was manually annotated 20 times for cluster AM.

Info for manual annotations of cluster AV:

- Start number 13 was manually annotated 1 time for cluster AV.
- Start number 14 was manually annotated 5 times for cluster AV.

Info for manual annotations of cluster AW:

- Start number 12 was manually annotated 1 time for cluster AW.
- Start number 15 was manually annotated 1 time for cluster AW.

Gene Information:

Gene: Adat_53 Start: 43182, Stop: 42778, Start Num: 14

Candidate Starts for Adat_53:

(Start: 14 @43182 has 5 MA's), (28, 42993), (29, 42972), (32, 42951), (35, 42906), (43, 42807),

Gene: Anandi_81 Start: 50714, Stop: 51127, Start Num: 18

Candidate Starts for Anandi_81:

(18, 50714), (21, 50774), (40, 51062), (45, 51089), (46, 51104),

Gene: Arcadia_85 Start: 50574, Stop: 50978, Start Num: 17

Candidate Starts for Arcadia_85:

(Start: 17 @50574 has 20 MA's), (19, 50610), (23, 50688), (25, 50721), (31, 50781), (34, 50817), (38, 50871), (44, 50943),

Gene: BenitoAntonio_85 Start: 50151, Stop: 50555, Start Num: 17

Candidate Starts for BenitoAntonio_85:

(Start: 17 @50151 has 20 MA's), (19, 50187), (23, 50265), (25, 50298), (31, 50358), (34, 50394), (38, 50448), (44, 50520),

Gene: Benllo_85 Start: 50469, Stop: 50873, Start Num: 17

Candidate Starts for Benllo_85:

(Start: 17 @50469 has 20 MA's), (19, 50505), (23, 50583), (25, 50616), (31, 50676), (34, 50712), (38, 50766), (44, 50838),

Gene: Bowling_87 Start: 50927, Stop: 51331, Start Num: 17

Candidate Starts for Bowling_87:

(Start: 17 @50927 has 20 MA's), (19, 50963), (23, 51041), (25, 51074), (31, 51134), (34, 51170), (38, 51224), (44, 51296),

Gene: Brad_53 Start: 43174, Stop: 42776, Start Num: 14

Candidate Starts for Brad_53:

(Start: 14 @43174 has 5 MA's), (28, 42985), (29, 42964), (32, 42943), (35, 42898),

Gene: Casserole_53 Start: 44279, Stop: 43875, Start Num: 14

Candidate Starts for Casserole_53:

(3, 44435), (4, 44426), (5, 44393), (7, 44375), (8, 44372), (Start: 14 @44279 has 5 MA's), (28, 44090), (29, 44069), (32, 44048), (35, 44003), (39, 43958), (43, 43907),

Gene: Cheesy_86 Start: 50366, Stop: 50770, Start Num: 17

Candidate Starts for Cheesy_86:

(Start: 17 @50366 has 20 MA's), (19, 50402), (23, 50480), (25, 50513), (31, 50573), (34, 50609), (38, 50663), (44, 50735),

Gene: Circum_85 Start: 50423, Stop: 50827, Start Num: 17

Candidate Starts for Circum_85:

(Start: 17 @50423 has 20 MA's), (19, 50459), (23, 50537), (25, 50570), (31, 50630), (34, 50666), (38, 50720), (44, 50792),

Gene: Correa_83 Start: 49923, Stop: 50327, Start Num: 17

Candidate Starts for Correa_83:

(Start: 17 @49923 has 20 MA's), (19, 49959), (23, 50037), (25, 50070), (31, 50130), (34, 50166), (38, 50220), (44, 50292),

Gene: Dynamite_85 Start: 49942, Stop: 50346, Start Num: 17

Candidate Starts for Dynamite_85:

(Start: 17 @49942 has 20 MA's), (19, 49978), (23, 50056), (25, 50089), (31, 50149), (34, 50185), (38, 50239), (44, 50311),

Gene: Elsa_85 Start: 50574, Stop: 50978, Start Num: 17

Candidate Starts for Elsa_85:

(Start: 17 @50574 has 20 MA's), (19, 50610), (23, 50688), (25, 50721), (31, 50781), (34, 50817), (38, 50871), (44, 50943),

Gene: GoCrazy_82 Start: 49202, Stop: 49606, Start Num: 17

Candidate Starts for GoCrazy_82:

(Start: 17 @49202 has 20 MA's), (19, 49238), (23, 49316), (25, 49349), (31, 49409), (34, 49445), (38, 49499), (44, 49571),

Gene: GurgleFerb_53 Start: 43181, Stop: 42777, Start Num: 14

Candidate Starts for GurgleFerb_53:

(Start: 14 @43181 has 5 MA's), (28, 42992), (29, 42971), (32, 42950), (35, 42905), (43, 42806),

Gene: Hankly_85 Start: 49580, Stop: 49984, Start Num: 17

Candidate Starts for Hankly_85:

(Start: 17 @49580 has 20 MA's), (19, 49616), (23, 49694), (25, 49727), (31, 49787), (34, 49823), (38, 49877), (44, 49949),

Gene: Heisenberger_84 Start: 49831, Stop: 50235, Start Num: 17

Candidate Starts for Heisenberger_84:

(Start: 17 @49831 has 20 MA's), (19, 49867), (23, 49945), (25, 49978), (31, 50038), (34, 50074), (38, 50128), (44, 50200),

Gene: JEGGS_84 Start: 49910, Stop: 50314, Start Num: 17

Candidate Starts for JEGGS_84:

(Start: 17 @49910 has 20 MA's), (19, 49946), (23, 50024), (25, 50057), (31, 50117), (34, 50153), (38, 50207), (44, 50279),

Gene: Jasmine_56 Start: 44695, Stop: 44300, Start Num: 13

Candidate Starts for Jasmine_56:

(Start: 13 @44695 has 1 MA's), (32, 44461), (35, 44416), (39, 44371), (43, 44320),

Gene: Kardesai_85 Start: 49517, Stop: 49921, Start Num: 17

Candidate Starts for Kardesai_85:

(Start: 17 @49517 has 20 MA's), (19, 49553), (23, 49631), (25, 49664), (31, 49724), (34, 49760), (38, 49814), (44, 49886),

Gene: KeaneyLin_82 Start: 49645, Stop: 50049, Start Num: 17

Candidate Starts for KeaneyLin_82:

(Start: 17 @49645 has 20 MA's), (19, 49681), (23, 49759), (25, 49792), (31, 49852), (34, 49888), (38, 49942), (44, 50014),

Gene: Mooshroom_86 Start: 49517, Stop: 49921, Start Num: 17

Candidate Starts for Mooshroom_86:

(Start: 17 @49517 has 20 MA's), (19, 49553), (23, 49631), (25, 49664), (31, 49724), (34, 49760), (38, 49814), (44, 49886),

Gene: Mudcat_81 Start: 51268, Stop: 51672, Start Num: 17

Candidate Starts for Mudcat_81:

(Start: 17 @51268 has 20 MA's), (19, 51304), (23, 51382), (25, 51415), (31, 51475), (34, 51511), (38, 51565), (44, 51637),

Gene: NapoleonB_86 Start: 49942, Stop: 50346, Start Num: 17

Candidate Starts for NapoleonB_86:

(Start: 17 @49942 has 20 MA's), (19, 49978), (23, 50056), (25, 50089), (31, 50149), (34, 50185), (38, 50239), (44, 50311),

Gene: Nason_85 Start: 50574, Stop: 50978, Start Num: 17

Candidate Starts for Nason_85:

(Start: 17 @50574 has 20 MA's), (19, 50610), (23, 50688), (25, 50721), (31, 50781), (34, 50817), (38, 50871), (44, 50943),

Gene: Nellie_53 Start: 43182, Stop: 42778, Start Num: 14

Candidate Starts for Nellie_53:

(Start: 14 @43182 has 5 MA's), (28, 42993), (29, 42972), (32, 42951), (35, 42906), (43, 42807),

Gene: Onestar_77 Start: 48716, Stop: 49147, Start Num: 14

Candidate Starts for Onestar_77:

(Start: 14 @48716 has 5 MA's), (27, 48905), (33, 48971), (35, 48995), (42, 49088),

Gene: Phroglets_44 Start: 39189, Stop: 38710, Start Num: 11

Candidate Starts for Phroglets_44:

(11, 39189), (19, 39096), (21, 39069), (30, 38922), (34, 38880), (36, 38856),

Gene: Powelldog_81 Start: 49417, Stop: 49851, Start Num: 12

Candidate Starts for Powelldog_81:

(2, 49252), (6, 49312), (9, 49330), (Start: 12 @49417 has 1 MA's), (22, 49513), (27, 49606), (29, 49630), (33, 49672), (35, 49696), (37, 49708), (41, 49783),

Gene: Sporto_76 Start: 49277, Stop: 49711, Start Num: 15

Candidate Starts for Sporto_76:

(10, 49196), (Start: 15 @49277 has 1 MA's), (20, 49328), (24, 49439), (33, 49532), (35, 49556), (41, 49643), (42, 49649),

Gene: Sprinkle_78 Start: 49214, Stop: 49645, Start Num: 16

Candidate Starts for Sprinkle_78:

(1, 49022), (2, 49043), (6, 49103), (9, 49121), (16, 49214), (20, 49265), (26, 49394), (27, 49403), (29, 49427), (33, 49469), (41, 49580),

Gene: Tribby_87 Start: 50701, Stop: 51105, Start Num: 17

Candidate Starts for Tribby_87:

(Start: 17 @50701 has 20 MA's), (19, 50737), (23, 50815), (25, 50848), (31, 50908), (34, 50944), (38, 50998), (44, 51070),

Gene: Xenomorph_80 Start: 50228, Stop: 50632, Start Num: 17

Candidate Starts for Xenomorph_80:

(Start: 17 @50228 has 20 MA's), (19, 50264), (23, 50342), (25, 50375), (31, 50435), (34, 50471), (38, 50525), (44, 50597),

Gene: YoshiYama_86 Start: 50980, Stop: 51384, Start Num: 17

Candidate Starts for YoshiYama_86:

(Start: 17 @50980 has 20 MA's), (19, 51016), (23, 51094), (25, 51127), (31, 51187), (34, 51223), (38, 51277), (44, 51349),