Pham 347972


1: Phomeo_20
2: Emianna_21 + 2
3: GTE8_9
4: Float294_22 + 1
5: Sukkupi_23 + 1
6: BiPauneto_24
7: Gibbles_34
8: Camerico_27
9: Whitney_38
10: Pupper_97
11: SCentae_96
12: CherryTomatoes_97
13: Beted_28 + 1
14: Oogie_29
15: LilJank_22 + 1
16: Apeppi_3 + 1
17: Aaravos_3

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 347972 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347972 has 24 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Phomeo_20
• Track 2 : Emianna_21, Kurt_21, KidneyBean_21
• Track 3 : GTE8_9
• Track 4 : Float294_22, Skysand_22
• Track 5 : Sukkupi_23, Yndexa_23
• Track 6 : BiPauneto_24
• Track 7 : Gibbles_34
• Track 8 : Camerico_27
• Track 9 : Whitney_38
• Track 10 : Pupper_97
• Track 11 : SCentae_96
• Track 12 : CherryTomatoes_97
• Track 13 : Beted_28, Lenoshki_28
• Track 14 : Oogie_29
• Track 15 : LilJank_22, Trax_22
• Track 16 : Apeppi_3, LuckyLeo_3
• Track 17 : Aaravos_3

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

The start number called the most often in the published annotations is 2, it was called in 4 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Emianna_21, KidneyBean_21, Kurt_21, Phomeo_20,

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

Genes that do not have the "Most Annotated" start:
• Aaravos_3, Apeppi_3, Beted_28, BiPauneto_24, Camerico_27, CherryTomatoes_97, Float294_22, GTE8_9, Gibbles_34, Lenoshki_28, LilJank_22, LuckyLeo_3, Oogie_29, Pupper_97, SCentae_96, Skysand_22, Sukkupi_23, Trax_22, Whitney_38, Yndexa_23,

Summary by start number:

Start 2:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Emianna_21 (CR2), KidneyBean_21 (CR2), Kurt_21 (CR2), Phomeo_20 (CR2),

Start 3:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Float294_22 (CR3), Skysand_22 (CR3),

Start 4:
• Found in 7 of 24 (29.2%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: GTE8_9 (CR2),

Start 7:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apeppi_3 (DV), LuckyLeo_3 (DV),

Start 9:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BiPauneto_24 (CR4), Sukkupi_23 (CR4), Yndexa_23 (CR4),

Start 11:
• Found in 1 of 24 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aaravos_3 (DV),

Start 22:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_97 (DO), Pupper_97 (DO), SCentae_96 (DO),

Start 26:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbles_34 (CX),

Start 30:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilJank_22 (DU2), Trax_22 (DU2),

Start 32:
• Found in 3 of 24 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beted_28 (DQ), Lenoshki_28 (DQ), Oogie_29 (DQ),

Start 39:
• Found in 2 of 24 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Camerico_27 (DF4),

Start 65:
• Found in 10 of 24 (41.7%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Whitney_38 (DN1),

Summary by clusters:

There are 10 clusters represented in this pham: CR2, DO, CR4, CR3, DF4, CX, DN1, DV, DU2, DQ,

Info for manual annotations of cluster CR2:
•Start number 2 was manually annotated 4 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 3 was manually annotated 2 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 9 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CX:
•Start number 26 was manually annotated 1 time for cluster CX.

Info for manual annotations of cluster DF4:
•Start number 39 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DN1:
•Start number 65 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DO:
•Start number 22 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DQ:

•Start number 32 was manually annotated 1 time for cluster DQ.

Info for manual annotations of cluster DU2:
•Start number 30 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster DV:
•Start number 7 was manually annotated 2 times for cluster DV.

Gene Information:

Gene: Aaravos_3 Start: 3182, Stop: 5059, Start Num: 11
Candidate Starts for Aaravos_3:
(11, 3182), (17, 3242), (23, 3338), (33, 3389), (58, 3716), (Start: 65 @3788 has 1 MA's), (67, 3815), (68, 3821), (76, 3971), (77, 3989), (79, 4016), (82, 4058), (84, 4109), (85, 4115), (91, 4214), (92, 4220), (95, 4277), (96, 4289), (97, 4298), (112, 4442), (115, 4457), (117, 4478), (118, 4481), (120, 4520), (121, 4526), (124, 4553), (133, 4667), (135, 4685), (137, 4694), (140, 4721), (144, 4757), (146, 4787), (148, 4799), (150, 4811), (152, 4820), (153, 4832), (155, 4871), (156, 4874), (157, 4877), (158, 4892), (161, 4919), (170, 5021),

Gene: Apeppi_3 Start: 3182, Stop: 5059, Start Num: 7
Candidate Starts for Apeppi_3:
(Start: 7 @3182 has 2 MA's), (21, 3338), (29, 3389), (37, 3419), (46, 3488), (47, 3491), (53, 3638), (60, 3725), (63, 3746), (Start: 65 @3788 has 1 MA's), (67, 3815), (68, 3821), (70, 3848), (80, 4016), (84, 4103), (85, 4109), (90, 4193), (93, 4247), (97, 4292), (100, 4328), (111, 4436), (113, 4445), (115, 4457), (117, 4478), (125, 4589), (127, 4601), (133, 4667), (137, 4694), (139, 4718), (147, 4796), (148, 4799), (161, 4922), (162, 4931), (169, 5015),

Gene: Beted_28 Start: 17323, Stop: 18984, Start Num: 32
Candidate Starts for Beted_28:
(Start: 32 @17323 has 1 MA's), (49, 17437), (52, 17557), (58, 17650), (61, 17668), (64, 17704), (Start: 65 @17719 has 1 MA's), (69, 17755), (75, 17845), (78, 17923), (85, 18046), (91, 18145), (96, 18220), (97, 18229), (107, 18349), (108, 18358), (111, 18370), (117, 18412), (122, 18472), (126, 18532), (127, 18535), (128, 18544), (131, 18580), (132, 18586), (138, 18646), (139, 18652), (140, 18655), (152, 18754), (161, 18856), (164, 18898), (167, 18934),

Gene: BiPauneto_24 Start: 9593, Stop: 11410, Start Num: 9
Candidate Starts for BiPauneto_24:
(Start: 9 @9593 has 3 MA's), (14, 9644), (38, 9785), (41, 9800), (46, 9839), (47, 9842), (60, 10076), (63, 10097), (Start: 65 @10139 has 1 MA's), (67, 10166), (68, 10172), (70, 10199), (80, 10367), (85, 10460), (86, 10490), (90, 10544), (97, 10643), (100, 10679), (103, 10697), (111, 10787), (113, 10796), (115, 10808), (117, 10829), (119, 10868), (125, 10940), (127, 10952), (133, 11018), (137, 11045), (139, 11069), (143, 11084), (147, 11147), (148, 11150), (161, 11273), (162, 11282), (169, 11366),

Gene: Camerico_27 Start: 32001, Stop: 33617, Start Num: 39
Candidate Starts for Camerico_27:
(25, 31923), (27, 31941), (31, 31950), (Start: 39 @32001 has 1 MA's), (40, 32010), (42, 32022), (43, 32025), (50, 32160), (53, 32208), (58, 32286), (62, 32304), (67, 32376), (75, 32475), (76, 32532), (85, 32676), (86, 32706), (91, 32775), (95, 32838), (96, 32850), (97, 32859), (106, 32970), (109, 32991), (115, 33018), (131, 33207), (137, 33255), (139, 33279), (156, 33435),

Gene: CherryTomatoes_97 Start: 48896, Stop: 50605, Start Num: 22

Candidate Starts for CherryTomatoes_97:
(13, 48803), (Start: 22 @48896 has 3 MA's), (24, 48911), (48, 49052), (60, 49274), (63, 49292), (67, 49361), (80, 49562), (83, 49631), (85, 49655), (90, 49739), (97, 49838), (102, 49883), (105, 49931), (119, 50063), (129, 50186), (130, 50189), (133, 50213), (135, 50231), (139, 50264), (155, 50420), (160, 50465), (169, 50561),

Gene: Emianna_21 Start: 10466, Stop: 12502, Start Num: 2
Candidate Starts for Emianna_21:
(Start: 2 @10466 has 4 MA's), (4, 10547), (8, 10607), (10, 10634), (15, 10697), (18, 10721), (19, 10736), (20, 10739), (35, 10838), (51, 11042), (63, 11189), (67, 11258), (72, 11315), (80, 11459), (81, 11480), (82, 11495), (83, 11528), (85, 11552), (90, 11636), (96, 11726), (97, 11735), (119, 11960), (130, 12086), (133, 12110), (139, 12161), (144, 12200), (147, 12239), (151, 12260), (158, 12338), (168, 12455), (169, 12458),

Gene: Float294_22 Start: 10208, Stop: 12094, Start Num: 3
Candidate Starts for Float294_22:
(Start: 3 @10208 has 2 MA's), (4, 10265), (10, 10352), (12, 10379), (16, 10427), (36, 10469), (47, 10529), (51, 10634), (60, 10763), (63, 10781), (67, 10850), (68, 10856), (72, 10907), (80, 11051), (81, 11072), (82, 11087), (83, 11120), (85, 11144), (90, 11228), (97, 11327), (119, 11552), (130, 11678), (135, 11720), (137, 11729), (139, 11753), (147, 11831), (151, 11852), (160, 11954), (169, 12050),

Gene: GTE8_9 Start: 3345, Stop: 5333, Start Num: 4
Candidate Starts for GTE8_9:
(1, 3216), (4, 3345), (5, 3366), (6, 3387), (19, 3564), (35, 3666), (44, 3726), (60, 3999), (63, 4020), (67, 4089), (68, 4095), (72, 4146), (76, 4245), (77, 4263), (80, 4290), (82, 4326), (83, 4359), (84, 4377), (85, 4383), (86, 4413), (90, 4467), (97, 4566), (100, 4602), (105, 4659), (114, 4725), (119, 4791), (125, 4863), (130, 4917), (133, 4941), (135, 4959), (137, 4968), (139, 4992), (142, 5004), (151, 5091), (161, 5196), (169, 5289),

Gene: Gibbles_34 Start: 37129, Stop: 38808, Start Num: 26
Candidate Starts for Gibbles_34:
(Start: 26 @37129 has 1 MA's), (34, 37150), (Start: 39 @37183 has 1 MA's), (45, 37228), (46, 37234), (67, 37564), (74, 37660), (85, 37864), (88, 37930), (90, 37948), (91, 37963), (92, 37969), (97, 38047), (99, 38077), (101, 38086), (104, 38125), (113, 38194), (122, 38287), (134, 38422), (137, 38443), (163, 38695), (165, 38716), (166, 38740), (171, 38797),

Gene: KidneyBean_21 Start: 10229, Stop: 12265, Start Num: 2
Candidate Starts for KidneyBean_21:
(Start: 2 @10229 has 4 MA's), (4, 10310), (8, 10370), (10, 10397), (15, 10460), (18, 10484), (19, 10499), (20, 10502), (35, 10601), (51, 10805), (63, 10952), (67, 11021), (72, 11078), (80, 11222), (81, 11243), (82, 11258), (83, 11291), (85, 11315), (90, 11399), (96, 11489), (97, 11498), (119, 11723), (130, 11849), (133, 11873), (139, 11924), (144, 11963), (147, 12002), (151, 12023), (158, 12101), (168, 12218), (169, 12221),

Gene: Kurt_21 Start: 10466, Stop: 12502, Start Num: 2
Candidate Starts for Kurt_21:
(Start: 2 @10466 has 4 MA's), (4, 10547), (8, 10607), (10, 10634), (15, 10697), (18, 10721), (19, 10736), (20, 10739), (35, 10838), (51, 11042), (63, 11189), (67, 11258), (72, 11315), (80, 11459), (81, 11480), (82, 11495), (83, 11528), (85, 11552), (90, 11636), (96, 11726), (97, 11735), (119, 11960), (130, 12086), (133, 12110), (139, 12161), (144, 12200), (147, 12239), (151, 12260), (158, 12338), (168, 12455), (169, 12458),

Gene: Lenoshki_28 Start: 17323, Stop: 18984, Start Num: 32

Candidate Starts for Lenoshki_28:
(Start: 32 @17323 has 1 MA's), (49, 17437), (52, 17557), (58, 17650), (61, 17668), (64, 17704), (Start: 65 @17719 has 1 MA's), (69, 17755), (75, 17845), (78, 17923), (85, 18046), (91, 18145), (96, 18220), (97, 18229), (107, 18349), (108, 18358), (111, 18370), (117, 18412), (122, 18472), (126, 18532), (127, 18535), (128, 18544), (131, 18580), (132, 18586), (138, 18646), (139, 18652), (140, 18655), (152, 18754), (161, 18856), (164, 18898), (167, 18934),

Gene: LilJank_22 Start: 12938, Stop: 14617, Start Num: 30
Candidate Starts for LilJank_22:
(28, 12935), (Start: 30 @12938 has 2 MA's), (54, 13226), (66, 13367), (67, 13373), (75, 13472), (76, 13529), (80, 13580), (81, 13601), (83, 13649), (85, 13673), (86, 13703), (87, 13724), (89, 13745), (92, 13778), (94, 13829), (95, 13835), (96, 13847), (97, 13856), (99, 13889), (100, 13892), (102, 13901), (115, 14018), (116, 14027), (118, 14042), (130, 14204), (131, 14207), (133, 14225), (137, 14252), (140, 14279), (141, 14282), (154, 14423), (156, 14432), (158, 14450), (159, 14456), (170, 14579),

Gene: LuckyLeo_3 Start: 3182, Stop: 5059, Start Num: 7
Candidate Starts for LuckyLeo_3:
(Start: 7 @3182 has 2 MA's), (21, 3338), (29, 3389), (37, 3419), (46, 3488), (47, 3491), (53, 3638), (60, 3725), (63, 3746), (Start: 65 @3788 has 1 MA's), (67, 3815), (68, 3821), (70, 3848), (80, 4016), (84, 4103), (85, 4109), (90, 4193), (93, 4247), (97, 4292), (100, 4328), (111, 4436), (113, 4445), (115, 4457), (117, 4478), (125, 4589), (127, 4601), (133, 4667), (137, 4694), (139, 4718), (147, 4796), (148, 4799), (161, 4922), (162, 4931), (169, 5015),

Gene: Oogie_29 Start: 17349, Stop: 19010, Start Num: 32
Candidate Starts for Oogie_29:
(Start: 32 @17349 has 1 MA's), (49, 17463), (52, 17583), (58, 17676), (61, 17694), (64, 17730), (Start: 65 @17745 has 1 MA's), (69, 17781), (71, 17817), (73, 17838), (78, 17949), (79, 17973), (85, 18072), (91, 18171), (92, 18177), (95, 18234), (97, 18255), (107, 18375), (108, 18384), (111, 18396), (117, 18438), (122, 18498), (123, 18507), (126, 18558), (127, 18561), (128, 18570), (131, 18606), (132, 18612), (138, 18672), (140, 18681), (152, 18780), (161, 18882), (164, 18924), (167, 18960),

Gene: Phomeo_20 Start: 10116, Stop: 12152, Start Num: 2
Candidate Starts for Phomeo_20:
(Start: 2 @10116 has 4 MA's), (4, 10197), (8, 10257), (10, 10284), (15, 10347), (18, 10371), (19, 10386), (20, 10389), (35, 10488), (51, 10692), (63, 10839), (67, 10908), (72, 10965), (80, 11109), (81, 11130), (82, 11145), (83, 11178), (85, 11202), (90, 11286), (97, 11385), (119, 11610), (130, 11736), (133, 11760), (139, 11811), (144, 11850), (147, 11889), (151, 11910), (158, 11988), (168, 12105), (169, 12108),

Gene: Pupper_97 Start: 49017, Stop: 50726, Start Num: 22
Candidate Starts for Pupper_97:
(13, 48924), (Start: 22 @49017 has 3 MA's), (24, 49032), (48, 49173), (60, 49395), (63, 49413), (67, 49482), (80, 49683), (83, 49752), (85, 49776), (90, 49860), (97, 49959), (102, 50004), (105, 50052), (106, 50076), (119, 50184), (129, 50307), (130, 50310), (133, 50334), (135, 50352), (139, 50385), (155, 50541), (160, 50586), (169, 50682),

Gene: SCentae_96 Start: 49163, Stop: 50872, Start Num: 22
Candidate Starts for SCentae_96:
(13, 49070), (Start: 22 @49163 has 3 MA's), (24, 49178), (48, 49319), (60, 49541), (63, 49559), (67, 49628), (80, 49829), (83, 49898), (85, 49922), (87, 49973), (90, 50006), (97, 50105), (102, 50150), (105, 50198), (119, 50330), (129, 50453), (130, 50456), (133, 50480), (135, 50498), (139, 50531), (155, 50687), (160, 50732), (169, 50828),

Gene: Skysand_22 Start: 10210, Stop: 12096, Start Num: 3
Candidate Starts for Skysand_22:
(Start: 3 @10210 has 2 MA's), (4, 10267), (10, 10354), (12, 10381), (16, 10429), (36, 10471), (47, 10531), (51, 10636), (60, 10765), (63, 10783), (67, 10852), (68, 10858), (72, 10909), (80, 11053), (81, 11074), (82, 11089), (83, 11122), (85, 11146), (90, 11230), (97, 11329), (119, 11554), (130, 11680), (135, 11722), (137, 11731), (139, 11755), (147, 11833), (151, 11854), (160, 11956), (169, 12052),

Gene: Sukkupi_23 Start: 9484, Stop: 11301, Start Num: 9
Candidate Starts for Sukkupi_23:
(Start: 9 @9484 has 3 MA's), (14, 9535), (38, 9676), (41, 9691), (46, 9730), (47, 9733), (60, 9967), (63, 9988), (Start: 65 @10030 has 1 MA's), (67, 10057), (68, 10063), (70, 10090), (80, 10258), (85, 10351), (86, 10381), (90, 10435), (97, 10534), (100, 10570), (103, 10588), (111, 10678), (113, 10687), (115, 10699), (117, 10720), (119, 10759), (122, 10780), (125, 10831), (133, 10909), (137, 10936), (139, 10960), (143, 10975), (147, 11038), (148, 11041), (161, 11164), (162, 11173), (169, 11257),

Gene: Trax_22 Start: 12887, Stop: 14566, Start Num: 30
Candidate Starts for Trax_22:
(28, 12884), (Start: 30 @12887 has 2 MA's), (54, 13175), (66, 13316), (67, 13322), (75, 13421), (76, 13478), (80, 13529), (81, 13550), (83, 13598), (85, 13622), (86, 13652), (87, 13673), (89, 13694), (92, 13727), (94, 13778), (95, 13784), (96, 13796), (97, 13805), (99, 13838), (100, 13841), (102, 13850), (115, 13967), (116, 13976), (118, 13991), (130, 14153), (131, 14156), (133, 14174), (137, 14201), (140, 14228), (141, 14231), (154, 14372), (156, 14381), (158, 14399), (159, 14405), (170, 14528),

Gene: Whitney_38 Start: 29488, Stop: 30759, Start Num: 65
Candidate Starts for Whitney_38:
(52, 29329), (55, 29383), (56, 29395), (57, 29413), (59, 29428), (Start: 65 @29488 has 1 MA's), (67, 29515), (68, 29521), (71, 29560), (83, 29791), (85, 29815), (86, 29845), (91, 29914), (94, 29971), (95, 29977), (97, 29998), (98, 30019), (110, 30133), (117, 30178), (120, 30220), (135, 30385), (136, 30388), (137, 30394), (142, 30430), (144, 30457), (145, 30481), (148, 30499), (149, 30508), (155, 30571), (156, 30574), (157, 30577), (159, 30598), (161, 30619), (169, 30712), (170, 30721),

Gene: Yndexa_23 Start: 9484, Stop: 11301, Start Num: 9
Candidate Starts for Yndexa_23:
(Start: 9 @9484 has 3 MA's), (14, 9535), (38, 9676), (41, 9691), (46, 9730), (47, 9733), (60, 9967), (63, 9988), (Start: 65 @10030 has 1 MA's), (67, 10057), (68, 10063), (70, 10090), (80, 10258), (85, 10351), (86, 10381), (90, 10435), (97, 10534), (100, 10570), (103, 10588), (111, 10678), (113, 10687), (115, 10699), (117, 10720), (119, 10759), (122, 10780), (125, 10831), (133, 10909), (137, 10936), (139, 10960), (143, 10975), (147, 11038), (148, 11041), (161, 11164), (162, 11173), (169, 11257),