

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 296693 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296693 has 45 members, 22 are drafts.

Phages represented in each track:

- Track 1 : KevinMinion_86, Argan_88, Uzumaki_88
- Track 2 : Leatheia_85
- Track 3 : MrAaronian_75, DoctorPepper_74, Djungelskog_74, Spain_75, Egad_75, Stayer_75, Raunak_76, StarLord_75, BronxBay_75, Shiba_74, Jeremy4pt0_72, ProfFrink_75
- Track 4 : Salk_75, Linda_75, Boog_74
- Track 5 : Sloopyjoe_75
- Track 6 : HerbBucket_74
- Track 7 : Michelle_75
- Track 8 : Arzan_78
- Track 9 : Jazzy4900_76, Sunny4976_75
- Track 10 : GermyBearimy_87
- Track 11 : Elver_209, Gandionco_208, Kureo_206, Marianna39_208, Qui_210, JeNeSaisPas_204, Paella_210
- Track 12 : Elver_208, Gandionco_207, Qui_209, Paella_209, Marianna39_207, JeNeSaisPas_203
- Track 13 : Gandionco_247
- Track 14 : Kureo_205
- Track 15 : Kureo_243, JeNeSaisPas_239
- Track 16 : Marianna39_247
- Track 17 : JeNeSaisPas_240

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

The start number called the most often in the published annotations is 14, it was called in 13 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Boog_74, BronxBay_75, Djungelskog_74, DoctorPepper_74, Egad_75, HerbBucket_74, JeNeSaisPas_239, JeNeSaisPas_240, Jeremy4pt0_72, Kureo_243, Linda_75, MrAaronian_75, ProfFrink_75, Raunak_76, Salk_75, Shiba_74, Sloopyjoe_75, Spain_75, StarLord_75, Stayer_75,

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

- Michelle_75,

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

- Argan_88, Arzan_78, Elver_208, Elver_209, Gandionco_207, Gandionco_208, Gandionco_247, GermyBearimy_87, Jazzy4900_76, JeNeSaisPas_203, JeNeSaisPas_204, KevinMinion_86, Kureo_205, Kureo_206, Leathea_85, Marianna39_207, Marianna39_208, Marianna39_247, Paella_209, Paella_210, Qui_209, Qui_210, Sunny4976_75, Uzumaki_88,

Summary by start number:

Start 7:

- Found in 2 of 45 (4.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gandionco_247 (FK),

Start 9:

- Found in 7 of 45 (15.6%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elver_208 (FK), Gandionco_207 (FK), JeNeSaisPas_203 (FK), Kureo_205 (FK), Marianna39_207 (FK), Paella_209 (FK), Qui_209 (FK),

Start 10:

- Found in 9 of 45 (20.0%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Elver_209 (FK), Gandionco_208 (FK), JeNeSaisPas_204 (FK), Kureo_206 (FK), Marianna39_208 (FK), Marianna39_247 (FK), Paella_210 (FK), Qui_210 (FK),

Start 11:

- Found in 3 of 45 (6.7%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argan_88 (AU6), KevinMinion_86 (AU6), Uzumaki_88 (AU6),

Start 12:

- Found in 2 of 45 (4.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jazzy4900_76 (FI), Sunny4976_75 (FI),

Start 13:

- Found in 3 of 45 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arzan_78 (FI), GermyBearimy_87 (FI), Leathea_85 (AU6),

Start 14:

- Found in 21 of 45 (46.7%) of genes in pham
- Manual Annotations of this start: 13 of 23
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Boog_74 (AW), BronxBay_75 (AW), Djungelskog_74 (AW), DoctorPepper_74 (AW), Egad_75 (AW), HerbBucket_74 (AW), JeNeSaisPas_239 (FK), JeNeSaisPas_240 (FK), Jeremy4pt0_72 (AW), Kureo_243 (FK), Linda_75 (AW), MrAaronian_75 (AW), ProfFrink_75 (AW), Raunak_76 (AW), Salk_75 (AW), Shiba_74 (AW), Sloopyjoe_75 (AW), Spain_75 (AW), StarLord_75 (AW), Stayer_75 (AW),

Start 17:

- Found in 14 of 45 (31.1%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Michelle_75 (AW),

Summary by clusters:

There are 4 clusters represented in this pham: FI, FK, AW, AU6,

Info for manual annotations of cluster AU6:

- Start number 11 was manually annotated 3 times for cluster AU6.

Info for manual annotations of cluster AW:

- Start number 14 was manually annotated 13 times for cluster AW.
- Start number 17 was manually annotated 1 time for cluster AW.

Info for manual annotations of cluster FK:

- Start number 9 was manually annotated 3 times for cluster FK.
- Start number 10 was manually annotated 3 times for cluster FK.

Gene Information:

Gene: Argan_88 Start: 50665, Stop: 50889, Start Num: 11

Candidate Starts for Argan_88:

(Start: 11 @50665 has 3 MA's), (24, 50803), (25, 50809), (37, 50854), (38, 50857),

Gene: Arzan_78 Start: 49144, Stop: 49362, Start Num: 13

Candidate Starts for Arzan_78:

(1, 49048), (3, 49087), (6, 49114), (13, 49144), (20, 49246),

Gene: Boog_74 Start: 47092, Stop: 47304, Start Num: 14

Candidate Starts for Boog_74:

(5, 47050), (8, 47071), (Start: 14 @47092 has 13 MA's), (16, 47119), (27, 47239), (41, 47290),

Gene: BronxBay_75 Start: 47373, Stop: 47588, Start Num: 14

Candidate Starts for BronxBay_75:

(5, 47331), (8, 47352), (Start: 14 @47373 has 13 MA's), (Start: 17 @47403 has 1 MA's), (22, 47499), (29, 47535), (41, 47574),

Gene: Djungelskog_74 Start: 47375, Stop: 47590, Start Num: 14
Candidate Starts for Djungelskog_74:
(5, 47333), (8, 47354), (Start: 14 @47375 has 13 MA's), (Start: 17 @47405 has 1 MA's), (22, 47501),
(29, 47537), (41, 47576),

Gene: DoctorPepper_74 Start: 47068, Stop: 47283, Start Num: 14
Candidate Starts for DoctorPepper_74:
(5, 47026), (8, 47047), (Start: 14 @47068 has 13 MA's), (Start: 17 @47098 has 1 MA's), (22, 47194),
(29, 47230), (41, 47269),

Gene: Egad_75 Start: 47342, Stop: 47557, Start Num: 14
Candidate Starts for Egad_75:
(5, 47300), (8, 47321), (Start: 14 @47342 has 13 MA's), (Start: 17 @47372 has 1 MA's), (22, 47468),
(29, 47504), (41, 47543),

Gene: Elver_209 Start: 97289, Stop: 97528, Start Num: 10
Candidate Starts for Elver_209:
(Start: 10 @97289 has 3 MA's), (23, 97433), (34, 97478), (42, 97517),

Gene: Elver_208 Start: 97047, Stop: 97292, Start Num: 9
Candidate Starts for Elver_208:
(Start: 9 @97047 has 3 MA's), (21, 97179), (26, 97203), (30, 97221), (39, 97248), (42, 97272),

Gene: Gandionco_207 Start: 96608, Stop: 96853, Start Num: 9
Candidate Starts for Gandionco_207:
(Start: 9 @96608 has 3 MA's), (21, 96740), (26, 96764), (30, 96782), (39, 96809), (42, 96833),

Gene: Gandionco_208 Start: 96850, Stop: 97089, Start Num: 10
Candidate Starts for Gandionco_208:
(Start: 10 @96850 has 3 MA's), (23, 96994), (34, 97039), (42, 97078),

Gene: Gandionco_247 Start: 109197, Stop: 109415, Start Num: 7
Candidate Starts for Gandionco_247:
(7, 109197), (Start: 10 @109206 has 3 MA's), (15, 109230),

Gene: GermyBearimy_87 Start: 50764, Stop: 50982, Start Num: 13
Candidate Starts for GermyBearimy_87:
(2, 50716), (4, 50737), (13, 50764), (18, 50857),

Gene: HerbBucket_74 Start: 47074, Stop: 47289, Start Num: 14
Candidate Starts for HerbBucket_74:
(5, 47032), (8, 47053), (Start: 14 @47074 has 13 MA's), (22, 47200), (29, 47236), (41, 47275),

Gene: Jazzy4900_76 Start: 49976, Stop: 50197, Start Num: 12
Candidate Starts for Jazzy4900_76:
(12, 49976), (20, 50078), (33, 50147), (36, 50156), (40, 50168),

Gene: JeNeSaisPas_239 Start: 109195, Stop: 109395, Start Num: 14
Candidate Starts for JeNeSaisPas_239:
(Start: 14 @109195 has 13 MA's), (32, 109363), (33, 109366),

Gene: JeNeSaisPas_204 Start: 97410, Stop: 97649, Start Num: 10

Candidate Starts for JeNeSaisPas_204:
(Start: 10 @97410 has 3 MA's), (23, 97554), (34, 97599), (42, 97638),

Gene: JeNeSaisPas_203 Start: 97168, Stop: 97413, Start Num: 9
Candidate Starts for JeNeSaisPas_203:
(Start: 9 @97168 has 3 MA's), (21, 97300), (26, 97324), (30, 97342), (39, 97369), (42, 97393),

Gene: JeNeSaisPas_240 Start: 109405, Stop: 109605, Start Num: 14
Candidate Starts for JeNeSaisPas_240:
(Start: 14 @109405 has 13 MA's), (28, 109558), (29, 109564),

Gene: Jeremy4pt0_72 Start: 47060, Stop: 47275, Start Num: 14
Candidate Starts for Jeremy4pt0_72:
(5, 47018), (8, 47039), (Start: 14 @47060 has 13 MA's), (Start: 17 @47090 has 1 MA's), (22, 47186),
(29, 47222), (41, 47261),

Gene: KevinMinion_86 Start: 51657, Stop: 51881, Start Num: 11
Candidate Starts for KevinMinion_86:
(Start: 11 @51657 has 3 MA's), (24, 51795), (25, 51801), (37, 51846), (38, 51849),

Gene: Kureo_205 Start: 95712, Stop: 95957, Start Num: 9
Candidate Starts for Kureo_205:
(Start: 9 @95712 has 3 MA's), (21, 95844), (26, 95868), (30, 95886), (39, 95913),

Gene: Kureo_206 Start: 95954, Stop: 96193, Start Num: 10
Candidate Starts for Kureo_206:
(Start: 10 @95954 has 3 MA's), (23, 96098), (34, 96143), (42, 96182),

Gene: Kureo_243 Start: 107418, Stop: 107618, Start Num: 14
Candidate Starts for Kureo_243:
(Start: 14 @107418 has 13 MA's), (32, 107586), (33, 107589),

Gene: Leathea_85 Start: 48722, Stop: 48952, Start Num: 13
Candidate Starts for Leathea_85:
(13, 48722), (15, 48737), (19, 48821), (23, 48860), (31, 48896), (35, 48908),

Gene: Linda_75 Start: 47358, Stop: 47570, Start Num: 14
Candidate Starts for Linda_75:
(5, 47316), (8, 47337), (Start: 14 @47358 has 13 MA's), (16, 47385), (27, 47505), (41, 47556),

Gene: Marianna39_207 Start: 97211, Stop: 97456, Start Num: 9
Candidate Starts for Marianna39_207:
(Start: 9 @97211 has 3 MA's), (21, 97343), (26, 97367), (30, 97385), (39, 97412), (42, 97436),

Gene: Marianna39_247 Start: 109809, Stop: 110018, Start Num: 10
Candidate Starts for Marianna39_247:
(7, 109800), (Start: 10 @109809 has 3 MA's), (15, 109833),

Gene: Marianna39_208 Start: 97453, Stop: 97692, Start Num: 10
Candidate Starts for Marianna39_208:
(Start: 10 @97453 has 3 MA's), (23, 97597), (34, 97642), (42, 97681),

Gene: Michelle_75 Start: 47402, Stop: 47587, Start Num: 17

Candidate Starts for Michelle_75:

(5, 47330), (8, 47351), (Start: 14 @47372 has 13 MA's), (Start: 17 @47402 has 1 MA's), (22, 47498), (29, 47534), (41, 47573),

Gene: MrAaronian_75 Start: 47372, Stop: 47587, Start Num: 14

Candidate Starts for MrAaronian_75:

(5, 47330), (8, 47351), (Start: 14 @47372 has 13 MA's), (Start: 17 @47402 has 1 MA's), (22, 47498), (29, 47534), (41, 47573),

Gene: Paella_209 Start: 97932, Stop: 98177, Start Num: 9

Candidate Starts for Paella_209:

(Start: 9 @97932 has 3 MA's), (21, 98064), (26, 98088), (30, 98106), (39, 98133), (42, 98157),

Gene: Paella_210 Start: 98174, Stop: 98413, Start Num: 10

Candidate Starts for Paella_210:

(Start: 10 @98174 has 3 MA's), (23, 98318), (34, 98363), (42, 98402),

Gene: ProfFrink_75 Start: 47341, Stop: 47556, Start Num: 14

Candidate Starts for ProfFrink_75:

(5, 47299), (8, 47320), (Start: 14 @47341 has 13 MA's), (Start: 17 @47371 has 1 MA's), (22, 47467), (29, 47503), (41, 47542),

Gene: Qui_209 Start: 97920, Stop: 98165, Start Num: 9

Candidate Starts for Qui_209:

(Start: 9 @97920 has 3 MA's), (21, 98052), (26, 98076), (30, 98094), (39, 98121), (42, 98145),

Gene: Qui_210 Start: 98162, Stop: 98401, Start Num: 10

Candidate Starts for Qui_210:

(Start: 10 @98162 has 3 MA's), (23, 98306), (34, 98351), (42, 98390),

Gene: Raunak_76 Start: 47051, Stop: 47266, Start Num: 14

Candidate Starts for Raunak_76:

(5, 47009), (8, 47030), (Start: 14 @47051 has 13 MA's), (Start: 17 @47081 has 1 MA's), (22, 47177), (29, 47213), (41, 47252),

Gene: Salk_75 Start: 47358, Stop: 47570, Start Num: 14

Candidate Starts for Salk_75:

(5, 47316), (8, 47337), (Start: 14 @47358 has 13 MA's), (16, 47385), (27, 47505), (41, 47556),

Gene: Shiba_74 Start: 47067, Stop: 47282, Start Num: 14

Candidate Starts for Shiba_74:

(5, 47025), (8, 47046), (Start: 14 @47067 has 13 MA's), (Start: 17 @47097 has 1 MA's), (22, 47193), (29, 47229), (41, 47268),

Gene: Sloopyjoe_75 Start: 47374, Stop: 47589, Start Num: 14

Candidate Starts for Sloopyjoe_75:

(5, 47332), (8, 47353), (Start: 14 @47374 has 13 MA's), (16, 47401), (Start: 17 @47404 has 1 MA's), (22, 47500), (29, 47536), (41, 47575),

Gene: Spain_75 Start: 47372, Stop: 47587, Start Num: 14

Candidate Starts for Spain_75:

(5, 47330), (8, 47351), (Start: 14 @47372 has 13 MA's), (Start: 17 @47402 has 1 MA's), (22, 47498), (29, 47534), (41, 47573),

Gene: StarLord_75 Start: 47367, Stop: 47582, Start Num: 14

Candidate Starts for StarLord_75:

(5, 47325), (8, 47346), (Start: 14 @47367 has 13 MA's), (Start: 17 @47397 has 1 MA's), (22, 47493), (29, 47529), (41, 47568),

Gene: Stayer_75 Start: 47370, Stop: 47585, Start Num: 14

Candidate Starts for Stayer_75:

(5, 47328), (8, 47349), (Start: 14 @47370 has 13 MA's), (Start: 17 @47400 has 1 MA's), (22, 47496), (29, 47532), (41, 47571),

Gene: Sunny4976_75 Start: 49976, Stop: 50197, Start Num: 12

Candidate Starts for Sunny4976_75:

(12, 49976), (20, 50078), (33, 50147), (36, 50156), (40, 50168),

Gene: Uzumaki_88 Start: 50799, Stop: 51023, Start Num: 11

Candidate Starts for Uzumaki_88:

(Start: 11 @50799 has 3 MA's), (24, 50937), (25, 50943), (37, 50988), (38, 50991),