

Pham 308719



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 308719 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308719 has 53 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Squint_217, Constella_211, Bobby_200, Wanda_218, BAKA_226
- Track 2 : Minerva_217, Nekros_221, Odette_221, Schatzie_211, Pound_209, MiaZeal_227, Duke13_222, Porcelain_218, Lucky2013_215, Shaboozey_218
- Track 3 : Halley_223, JuicyJay_214, Ariel_226, Yeet_213, Courthouse_223, Beem_221, Hughesyang_220, Ejimix_211, Redno2_211, Dove_204, Zelink_212
- Track 4 : BronnyJames_212, Kalah2_220, Hannaconda_211, KashFlow_212, Nibley_210, ThreeRngTarjay_219
- Track 5 : Dallas_219, Hidrated_207, Xiaokay_208, Klein_226
- Track 6 : Phoebus_218, NihilNomen_222, HokkenD_211, Bombitas_204, Thibault_194, Superphikiman_219
- Track 7 : DmpstrDiver_219
- Track 8 : Rearden_218
- Track 9 : Marleymoo_203
- Track 10 : Bagrid_227, EricMillard_217
- Track 11 : Omega_222
- Track 12 : LittleE_220, Gonephishing_216
- Track 13 : Stellammi_178
- Track 14 : Gaia_157
- Track 15 : Nebkiss_154

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

The start number called the most often in the published annotations is 8, it was called in 32 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_226, Bagrid_227, Beem_221, Bombitas_204, BronnyJames_212, Courthouse_223, DmpstrDiver_219, Dove_204, Duke13_222, Ejimix_211, EricMillard_217, Gonephishing_216, Halley_223, Hannaconda_211, HokkenD_211, Hughesyang_220, JuicyJay_214, Kalah2_220, KashFlow_212, LittleE_220, Lucky2013_215, Marleymoo_203, MiaZeal_227, Minerva_217, Nekros_221, Nibley_210, NihilNomen_222, Odette_221, Omega_222, Phoebus_218, Porcelain_218, Pound_209, Rearden_218, Redno2_211, Schatzie_211, Shaboozey_218, Superphikiman_219, Thibault_194, ThreeRngTarjay_219,

Yeet_213, Zelink_212,

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

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

- BAKA_226, Bobby_200, Constella_211, Dallas_219, Gaia_157, Hidrated_207, Klein_226, Nebkiss_154, Squint_217, Stellammi_178, Wanda_218, Xiaokay_208,

Summary by start number:

Start 1:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nebkiss_154 (X),

Start 5:

- Found in 10 of 53 (18.9%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Dallas_219 (J), Hidrated_207 (J), Klein_226 (J), Xiaokay_208 (J),

Start 7:

- Found in 9 of 53 (17.0%) of genes in pham
- Manual Annotations of this start: 5 of 42
- Called 55.6% of time when present
- Phage (with cluster) where this start called: BAKA_226 (J), Bobby_200 (J), Constella_211 (J), Squint_217 (J), Wanda_218 (J),

Start 8:

- Found in 41 of 53 (77.4%) of genes in pham
- Manual Annotations of this start: 32 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_226 (J), Bagrid_227 (J), Beem_221 (J), Bombitas_204 (J), BronnyJames_212 (J), Courthouse_223 (J), DmpstrDiver_219 (J), Dove_204 (J), Duke13_222 (J), Ejimix_211 (J), EricMillard_217 (J), Gonephishing_216 (J), Halley_223 (J), Hannaconda_211 (J), HokkenD_211 (J), Hughesyang_220 (J), JuicyJay_214 (J), Kalah2_220 (J), KashFlow_212 (J), LittleE_220 (J), Lucky2013_215 (J), Marleymoo_203 (J), MiaZeal_227 (J), Minerva_217 (J), Nekros_221 (J), Nibley_210 (J), NihilNomen_222 (J), Odette_221 (J), Omega_222 (J), Phoebus_218 (J), Porcelain_218 (J), Pound_209 (J), Rearden_218 (J), Redno2_211 (J), Schatzie_211 (J), Shaboozey_218 (J), Superphikiman_219 (J), Thibault_194 (J), ThreeRngTarjay_219 (J), Yeet_213 (J), Zelink_212 (J),

Start 10:

- Found in 1 of 53 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stellammi_178 (UNK),

Start 11:

- Found in 2 of 53 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gaia_157 (X),

Summary by clusters:

There are 3 clusters represented in this pham: X, UNK, J,

Info for manual annotations of cluster J:

- Start number 5 was manually annotated 2 times for cluster J.
- Start number 7 was manually annotated 5 times for cluster J.
- Start number 8 was manually annotated 32 times for cluster J.

Info for manual annotations of cluster UNK:

- Start number 10 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster X:

- Start number 1 was manually annotated 1 time for cluster X.
- Start number 11 was manually annotated 1 time for cluster X.

Gene Information:

Gene: Ariel_226 Start: 103855, Stop: 103583, Start Num: 8

Candidate Starts for Ariel_226:

(Start: 8 @103855 has 32 MA's), (14, 103732), (16, 103684), (17, 103681), (18, 103678), (22, 103624), (24, 103612),

Gene: BAKA_226 Start: 107186, Stop: 106908, Start Num: 7

Candidate Starts for BAKA_226:

(Start: 5 @107201 has 2 MA's), (Start: 7 @107186 has 5 MA's), (15, 107042), (17, 107006), (19, 106976), (20, 106970), (25, 106925),

Gene: Bagrid_227 Start: 107953, Stop: 107681, Start Num: 8

Candidate Starts for Bagrid_227:

(Start: 8 @107953 has 32 MA's), (14, 107830), (16, 107782), (17, 107779), (18, 107776), (19, 107749), (21, 107728), (22, 107722), (24, 107710),

Gene: Beem_221 Start: 106722, Stop: 106450, Start Num: 8

Candidate Starts for Beem_221:

(Start: 8 @106722 has 32 MA's), (14, 106599), (16, 106551), (17, 106548), (18, 106545), (22, 106491), (24, 106479),

Gene: Bobby_200 Start: 104670, Stop: 104392, Start Num: 7

Candidate Starts for Bobby_200:

(Start: 5 @104685 has 2 MA's), (Start: 7 @104670 has 5 MA's), (15, 104526), (17, 104490), (19, 104460), (20, 104454), (25, 104409),

Gene: Bombitas_204 Start: 103211, Stop: 102939, Start Num: 8

Candidate Starts for Bombitas_204:

(2, 103259), (Start: 8 @103211 has 32 MA's), (14, 103088), (16, 103040), (17, 103037), (18, 103034), (22, 102980), (24, 102968),

Gene: BronnyJames_212 Start: 101771, Stop: 101502, Start Num: 8

Candidate Starts for BronnyJames_212:

(Start: 8 @101771 has 32 MA's), (15, 101636), (17, 101600), (19, 101570), (20, 101564), (25, 101519),

Gene: Constella_211 Start: 104898, Stop: 104620, Start Num: 7

Candidate Starts for Constella_211:

(Start: 5 @104913 has 2 MA's), (Start: 7 @104898 has 5 MA's), (15, 104754), (17, 104718), (19, 104688), (20, 104682), (25, 104637),

Gene: Courthouse_223 Start: 104715, Stop: 104443, Start Num: 8

Candidate Starts for Courthouse_223:

(Start: 8 @104715 has 32 MA's), (14, 104592), (16, 104544), (17, 104541), (18, 104538), (22, 104484), (24, 104472),

Gene: Dallas_219 Start: 105522, Stop: 105229, Start Num: 5

Candidate Starts for Dallas_219:

(Start: 5 @105522 has 2 MA's), (Start: 7 @105507 has 5 MA's), (15, 105363), (17, 105327), (19, 105297), (20, 105291), (25, 105246),

Gene: DmpstrDiver_219 Start: 105373, Stop: 105101, Start Num: 8

Candidate Starts for DmpstrDiver_219:

(3, 105406), (Start: 5 @105400 has 2 MA's), (Start: 8 @105373 has 32 MA's), (14, 105250), (16, 105202), (17, 105199), (18, 105196), (22, 105142), (24, 105130),

Gene: Dove_204 Start: 101833, Stop: 101561, Start Num: 8

Candidate Starts for Dove_204:

(Start: 8 @101833 has 32 MA's), (14, 101710), (16, 101662), (17, 101659), (18, 101656), (22, 101602), (24, 101590),

Gene: Duke13_222 Start: 106170, Stop: 105901, Start Num: 8

Candidate Starts for Duke13_222:

(Start: 8 @106170 has 32 MA's), (15, 106035), (17, 105999), (19, 105969), (25, 105918),

Gene: Ejimix_211 Start: 105127, Stop: 104855, Start Num: 8

Candidate Starts for Ejimix_211:

(Start: 8 @105127 has 32 MA's), (14, 105004), (16, 104956), (17, 104953), (18, 104950), (22, 104896), (24, 104884),

Gene: EricMillard_217 Start: 106845, Stop: 106573, Start Num: 8

Candidate Starts for EricMillard_217:

(Start: 8 @106845 has 32 MA's), (14, 106722), (16, 106674), (17, 106671), (18, 106668), (19, 106641), (21, 106620), (22, 106614), (24, 106602),

Gene: Gaia_157 Start: 81100, Stop: 80852, Start Num: 11

Candidate Starts for Gaia_157:

(Start: 1 @81181 has 1 MA's), (Start: 11 @81100 has 1 MA's), (12, 81094), (13, 81040), (14, 80998),

Gene: Gonephishing_216 Start: 104332, Stop: 104060, Start Num: 8

Candidate Starts for Gonephishing_216:

(Start: 8 @104332 has 32 MA's), (14, 104209), (16, 104161), (17, 104158), (18, 104155), (22, 104101), (24, 104089),

Gene: Halley_223 Start: 105740, Stop: 105468, Start Num: 8

Candidate Starts for Halley_223:

(Start: 8 @105740 has 32 MA's), (14, 105617), (16, 105569), (17, 105566), (18, 105563), (22, 105509), (24, 105497),

Gene: Hannaconda_211 Start: 105157, Stop: 104888, Start Num: 8

Candidate Starts for Hannaconda_211:

(Start: 8 @105157 has 32 MA's), (15, 105022), (17, 104986), (19, 104956), (20, 104950), (25, 104905),

Gene: Hidrated_207 Start: 106420, Stop: 106127, Start Num: 5

Candidate Starts for Hidrated_207:

(Start: 5 @106420 has 2 MA's), (Start: 7 @106405 has 5 MA's), (15, 106261), (17, 106225), (19, 106195), (20, 106189), (25, 106144),

Gene: HokkenD_211 Start: 106655, Stop: 106383, Start Num: 8

Candidate Starts for HokkenD_211:

(2, 106703), (Start: 8 @106655 has 32 MA's), (14, 106532), (16, 106484), (17, 106481), (18, 106478), (22, 106424), (24, 106412),

Gene: Hughesyang_220 Start: 106400, Stop: 106128, Start Num: 8

Candidate Starts for Hughesyang_220:

(Start: 8 @106400 has 32 MA's), (14, 106277), (16, 106229), (17, 106226), (18, 106223), (22, 106169), (24, 106157),

Gene: JuicyJay_214 Start: 106671, Stop: 106399, Start Num: 8

Candidate Starts for JuicyJay_214:

(Start: 8 @106671 has 32 MA's), (14, 106548), (16, 106500), (17, 106497), (18, 106494), (22, 106440), (24, 106428),

Gene: Kalah2_220 Start: 107459, Stop: 107190, Start Num: 8

Candidate Starts for Kalah2_220:

(Start: 8 @107459 has 32 MA's), (15, 107324), (17, 107288), (19, 107258), (20, 107252), (25, 107207),

Gene: KashFlow_212 Start: 105051, Stop: 104782, Start Num: 8

Candidate Starts for KashFlow_212:

(Start: 8 @105051 has 32 MA's), (15, 104916), (17, 104880), (19, 104850), (20, 104844), (25, 104799),

Gene: Klein_226 Start: 105907, Stop: 105614, Start Num: 5

Candidate Starts for Klein_226:

(Start: 5 @105907 has 2 MA's), (Start: 7 @105892 has 5 MA's), (15, 105748), (17, 105712), (19, 105682), (20, 105676), (25, 105631),

Gene: LittleE_220 Start: 105652, Stop: 105380, Start Num: 8

Candidate Starts for LittleE_220:

(Start: 8 @105652 has 32 MA's), (14, 105529), (16, 105481), (17, 105478), (18, 105475), (22, 105421), (24, 105409),

Gene: Lucky2013_215 Start: 102110, Stop: 101841, Start Num: 8

Candidate Starts for Lucky2013_215:

(Start: 8 @102110 has 32 MA's), (15, 101975), (17, 101939), (19, 101909), (25, 101858),

Gene: Marleymoo_203 Start: 103644, Stop: 103372, Start Num: 8
Candidate Starts for Marleymoo_203:
(4, 103674), (6, 103668), (Start: 8 @103644 has 32 MA's), (9, 103641), (17, 103470), (19, 103440),
(23, 103404), (25, 103389),

Gene: MiaZeal_227 Start: 104249, Stop: 103980, Start Num: 8
Candidate Starts for MiaZeal_227:
(Start: 8 @104249 has 32 MA's), (15, 104114), (17, 104078), (19, 104048), (25, 103997),

Gene: Minerva_217 Start: 103963, Stop: 103694, Start Num: 8
Candidate Starts for Minerva_217:
(Start: 8 @103963 has 32 MA's), (15, 103828), (17, 103792), (19, 103762), (25, 103711),

Gene: Nebkiss_154 Start: 76672, Stop: 76343, Start Num: 1
Candidate Starts for Nebkiss_154:
(Start: 1 @76672 has 1 MA's), (Start: 11 @76591 has 1 MA's), (12, 76585), (13, 76531), (14, 76489),

Gene: Nekros_221 Start: 106055, Stop: 105786, Start Num: 8
Candidate Starts for Nekros_221:
(Start: 8 @106055 has 32 MA's), (15, 105920), (17, 105884), (19, 105854), (25, 105803),

Gene: Nibley_210 Start: 101348, Stop: 101079, Start Num: 8
Candidate Starts for Nibley_210:
(Start: 8 @101348 has 32 MA's), (15, 101213), (17, 101177), (19, 101147), (20, 101141), (25, 101096),

Gene: NihilNomen_222 Start: 104921, Stop: 104649, Start Num: 8
Candidate Starts for NihilNomen_222:
(2, 104969), (Start: 8 @104921 has 32 MA's), (14, 104798), (16, 104750), (17, 104747), (18, 104744),
(22, 104690), (24, 104678),

Gene: Odette_221 Start: 106808, Stop: 106539, Start Num: 8
Candidate Starts for Odette_221:
(Start: 8 @106808 has 32 MA's), (15, 106673), (17, 106637), (19, 106607), (25, 106556),

Gene: Omega_222 Start: 106450, Stop: 106178, Start Num: 8
Candidate Starts for Omega_222:
(Start: 8 @106450 has 32 MA's), (14, 106327), (16, 106279), (17, 106276), (18, 106273), (21, 106225),
(22, 106219), (24, 106207),

Gene: Phoebus_218 Start: 108172, Stop: 107900, Start Num: 8
Candidate Starts for Phoebus_218:
(2, 108220), (Start: 8 @108172 has 32 MA's), (14, 108049), (16, 108001), (17, 107998), (18, 107995),
(22, 107941), (24, 107929),

Gene: Porcelain_218 Start: 103057, Stop: 102788, Start Num: 8
Candidate Starts for Porcelain_218:
(Start: 8 @103057 has 32 MA's), (15, 102922), (17, 102886), (19, 102856), (25, 102805),

Gene: Pound_209 Start: 104151, Stop: 103882, Start Num: 8
Candidate Starts for Pound_209:
(Start: 8 @104151 has 32 MA's), (15, 104016), (17, 103980), (19, 103950), (25, 103899),

Gene: Rearden_218 Start: 103489, Stop: 103217, Start Num: 8
Candidate Starts for Rearden_218:
(Start: 8 @103489 has 32 MA's), (14, 103366), (17, 103315), (18, 103312), (19, 103285), (22, 103258),
(24, 103246),

Gene: Redno2_211 Start: 102561, Stop: 102289, Start Num: 8
Candidate Starts for Redno2_211:
(Start: 8 @102561 has 32 MA's), (14, 102438), (16, 102390), (17, 102387), (18, 102384), (22, 102330),
(24, 102318),

Gene: Schatzie_211 Start: 104687, Stop: 104418, Start Num: 8
Candidate Starts for Schatzie_211:
(Start: 8 @104687 has 32 MA's), (15, 104552), (17, 104516), (19, 104486), (25, 104435),

Gene: Shaboozey_218 Start: 102619, Stop: 102350, Start Num: 8
Candidate Starts for Shaboozey_218:
(Start: 8 @102619 has 32 MA's), (15, 102484), (17, 102448), (19, 102418), (25, 102367),

Gene: Squint_217 Start: 103618, Stop: 103340, Start Num: 7
Candidate Starts for Squint_217:
(Start: 5 @103633 has 2 MA's), (Start: 7 @103618 has 5 MA's), (15, 103474), (17, 103438), (19,
103408), (20, 103402), (25, 103357),

Gene: Stellammi_178 Start: 79599, Stop: 79333, Start Num: 10
Candidate Starts for Stellammi_178:
(Start: 10 @79599 has 1 MA's), (16, 79434), (22, 79374),

Gene: Superphikiman_219 Start: 103676, Stop: 103404, Start Num: 8
Candidate Starts for Superphikiman_219:
(2, 103724), (Start: 8 @103676 has 32 MA's), (14, 103553), (16, 103505), (17, 103502), (18, 103499),
(22, 103445), (24, 103433),

Gene: Thibault_194 Start: 100645, Stop: 100373, Start Num: 8
Candidate Starts for Thibault_194:
(2, 100693), (Start: 8 @100645 has 32 MA's), (14, 100522), (16, 100474), (17, 100471), (18, 100468),
(22, 100414), (24, 100402),

Gene: ThreeRngTarjay_219 Start: 107162, Stop: 106893, Start Num: 8
Candidate Starts for ThreeRngTarjay_219:
(Start: 8 @107162 has 32 MA's), (15, 107027), (17, 106991), (19, 106961), (20, 106955), (25, 106910),

Gene: Wanda_218 Start: 103522, Stop: 103244, Start Num: 7
Candidate Starts for Wanda_218:
(Start: 5 @103537 has 2 MA's), (Start: 7 @103522 has 5 MA's), (15, 103378), (17, 103342), (19,
103312), (20, 103306), (25, 103261),

Gene: Xiaokay_208 Start: 105014, Stop: 104721, Start Num: 5
Candidate Starts for Xiaokay_208:
(Start: 5 @105014 has 2 MA's), (Start: 7 @104999 has 5 MA's), (15, 104855), (17, 104819), (19,
104789), (20, 104783), (25, 104738),

Gene: Yeet_213 Start: 104760, Stop: 104488, Start Num: 8
Candidate Starts for Yeet_213:

(Start: 8 @104760 has 32 MA's), (14, 104637), (16, 104589), (17, 104586), (18, 104583), (22, 104529), (24, 104517),

Gene: Zelink_212 Start: 104898, Stop: 104626, Start Num: 8

Candidate Starts for Zelink_212:

(Start: 8 @104898 has 32 MA's), (14, 104775), (16, 104727), (17, 104724), (18, 104721), (22, 104667), (24, 104655),