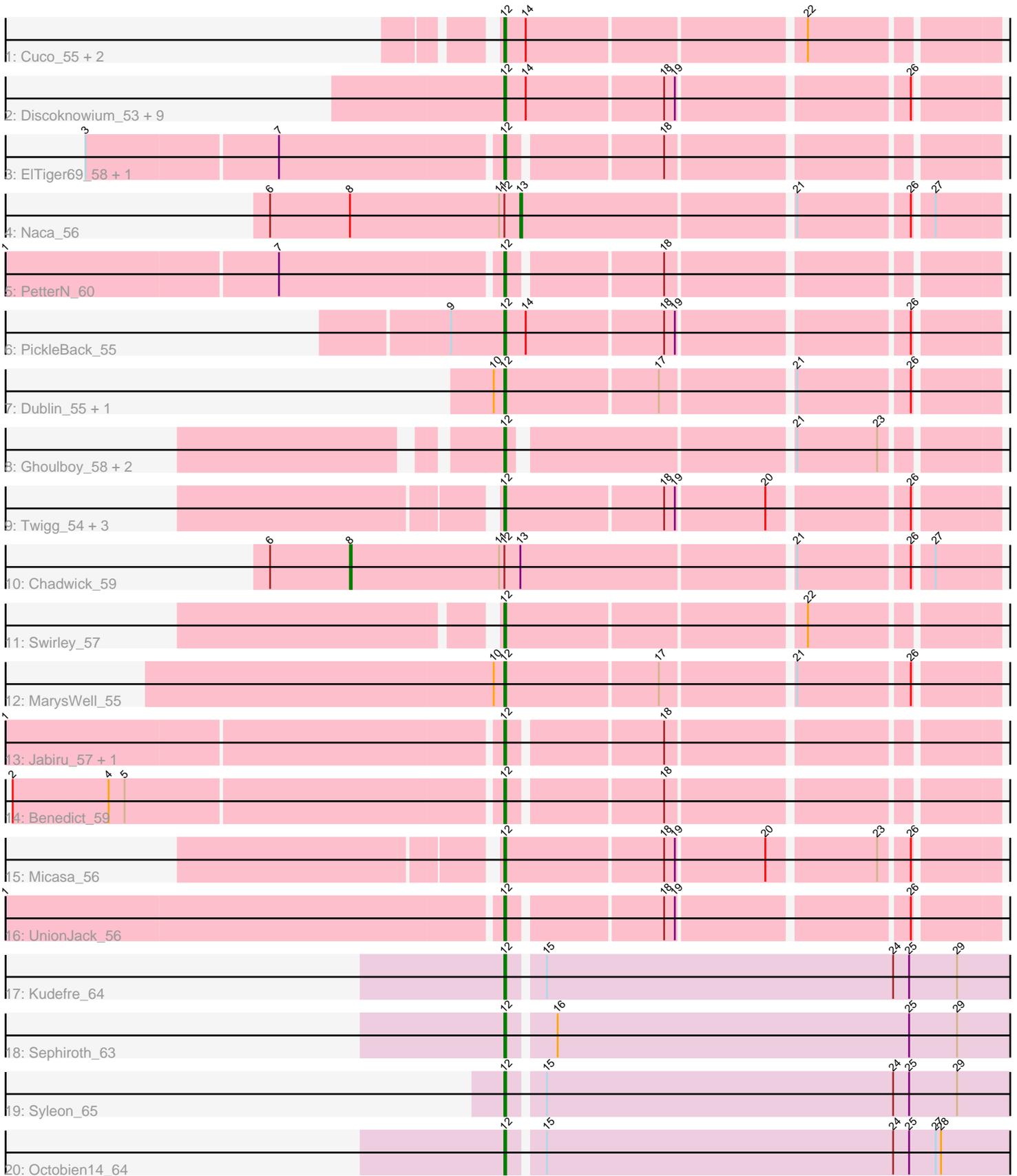


Pham 291329



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 291329 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291329 has 39 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Cuco_55, Coog_54, Midas2_54
- Track 2 : Discoknowium_53, Jovo_55, Lev2_55, Archetta_54, Conspiracy_55, ForGetIt_55, Tiger_54, Aragog_54, AgentM_54, Phlorence_53
- Track 3 : ElTiger69_58, Airmid_56
- Track 4 : Naca_56
- Track 5 : PetterN_60
- Track 6 : PickleBack_55
- Track 7 : Dublin_55, Theia_54
- Track 8 : Ghoulboy_58, SydNat_58, Zolita_57
- Track 9 : Twigg_54, Florence1_52, Florence4_54, Tarynearal_53
- Track 10 : Chadwick_59
- Track 11 : Swirley_57
- Track 12 : MarysWell_55
- Track 13 : Jabiru_57, Scorpia_60
- Track 14 : Benedict_59
- Track 15 : Micasa_56
- Track 16 : UnionJack_56
- Track 17 : Kudfre_64
- Track 18 : Sephiroth_63
- Track 19 : Syleon_65
- Track 20 : Octobien14_64

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

The start number called the most often in the published annotations is 12, it was called in 34 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_54, Airmid_56, Aragog_54, Archetta_54, Benedict_59, Conspiracy_55, Coog_54, Cuco_55, Discoknowium_53, Dublin_55, ElTiger69_58, Florence1_52, Florence4_54, ForGetIt_55, Ghoulboy_58, Jabiru_57, Jovo_55, Kudfre_64, Lev2_55, MarysWell_55, Micasa_56, Midas2_54, Octobien14_64, PetterN_60, Phlorence_53, PickleBack_55, Scorpia_60, Sephiroth_63, Swirley_57, SydNat_58, Syleon_65, Tarynearal_53, Theia_54, Tiger_54, Twigg_54, UnionJack_56, Zolita_57,

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

- Chadwick_59, Naca_56,

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

-

Summary by start number:

Start 8:

- Found in 2 of 39 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Chadwick_59 (A5),

Start 12:

- Found in 39 of 39 (100.0%) of genes in pham
- Manual Annotations of this start: 34 of 36
- Called 94.9% of time when present
- Phage (with cluster) where this start called: AgentM_54 (A5), Airmid_56 (A5), Aragog_54 (A5), Archetta_54 (A5), Benedict_59 (A5), Conspiracy_55 (A5), Coog_54 (A5), Cuco_55 (A5), Discoknowium_53 (A5), Dublin_55 (A5), ElTiger69_58 (A5), Florence1_52 (A5), Florence4_54 (A5), ForGetIt_55 (A5), Ghoulboy_58 (A5), Jabiru_57 (A5), Jovo_55 (A5), Kudrefre_64 (DU1), Lev2_55 (A5), MarysWell_55 (A5), Micasa_56 (A5), Midas2_54 (A5), Octobien14_64 (DU1), PetterN_60 (A5), Phlorence_53 (A5), PickleBack_55 (A5), Scorpia_60 (A5), Sephiroth_63 (DU1), Swirley_57 (A5), SydNat_58 (A5), Syleon_65 (DU1), Tarynearal_53 (A5), Theia_54 (A5), Tiger_54 (A5), Twigg_54 (A5), UnionJack_56 (A5), Zolita_57 (A5),

Start 13:

- Found in 2 of 39 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Naca_56 (A5),

Summary by clusters:

There are 2 clusters represented in this pham: DU1, A5,

Info for manual annotations of cluster A5:

- Start number 8 was manually annotated 1 time for cluster A5.
- Start number 12 was manually annotated 30 times for cluster A5.
- Start number 13 was manually annotated 1 time for cluster A5.

Info for manual annotations of cluster DU1:

- Start number 12 was manually annotated 4 times for cluster DU1.

Gene Information:

Gene: AgentM_54 Start: 38609, Stop: 38352, Start Num: 12

Candidate Starts for AgentM_54:

(Start: 12 @38609 has 34 MA's), (14, 38597), (18, 38522), (19, 38516), (26, 38396),

Gene: Airmid_56 Start: 38747, Stop: 38496, Start Num: 12

Candidate Starts for Airmid_56:

(3, 38972), (7, 38867), (Start: 12 @38747 has 34 MA's), (18, 38666),

Gene: Aragog_54 Start: 38629, Stop: 38372, Start Num: 12

Candidate Starts for Aragog_54:

(Start: 12 @38629 has 34 MA's), (14, 38617), (18, 38542), (19, 38536), (26, 38416),

Gene: Archetta_54 Start: 39039, Stop: 38782, Start Num: 12

Candidate Starts for Archetta_54:

(Start: 12 @39039 has 34 MA's), (14, 39027), (18, 38952), (19, 38946), (26, 38826),

Gene: Benedict_59 Start: 38995, Stop: 38744, Start Num: 12

Candidate Starts for Benedict_59:

(2, 39262), (4, 39208), (5, 39199), (Start: 12 @38995 has 34 MA's), (18, 38914),

Gene: Chadwick_59 Start: 38932, Stop: 38585, Start Num: 8

Candidate Starts for Chadwick_59:

(6, 38977), (Start: 8 @38932 has 1 MA's), (11, 38848), (Start: 12 @38845 has 34 MA's), (Start: 13 @38836 has 1 MA's), (21, 38689), (26, 38629), (27, 38620),

Gene: Conspiracy_55 Start: 38851, Stop: 38594, Start Num: 12

Candidate Starts for Conspiracy_55:

(Start: 12 @38851 has 34 MA's), (14, 38839), (18, 38764), (19, 38758), (26, 38638),

Gene: Coog_54 Start: 39045, Stop: 38788, Start Num: 12

Candidate Starts for Coog_54:

(Start: 12 @39045 has 34 MA's), (14, 39033), (22, 38886),

Gene: Cuco_55 Start: 38905, Stop: 38648, Start Num: 12

Candidate Starts for Cuco_55:

(Start: 12 @38905 has 34 MA's), (14, 38893), (22, 38746),

Gene: Discoknowium_53 Start: 38518, Stop: 38261, Start Num: 12

Candidate Starts for Discoknowium_53:

(Start: 12 @38518 has 34 MA's), (14, 38506), (18, 38431), (19, 38425), (26, 38305),

Gene: Dublin_55 Start: 39020, Stop: 38763, Start Num: 12

Candidate Starts for Dublin_55:

(10, 39026), (Start: 12 @39020 has 34 MA's), (17, 38936), (21, 38867), (26, 38807),

Gene: EITiger69_58 Start: 38971, Stop: 38720, Start Num: 12

Candidate Starts for EITiger69_58:

(3, 39196), (7, 39091), (Start: 12 @38971 has 34 MA's), (18, 38890),

Gene: Florence1_52 Start: 38384, Stop: 38127, Start Num: 12

Candidate Starts for Florence1_52:

(Start: 12 @38384 has 34 MA's), (18, 38297), (19, 38291), (20, 38243), (26, 38171),

Gene: Florence4_54 Start: 38384, Stop: 38127, Start Num: 12

Candidate Starts for Florence4_54:

(Start: 12 @38384 has 34 MA's), (18, 38297), (19, 38291), (20, 38243), (26, 38171),

Gene: ForGetIt_55 Start: 38876, Stop: 38619, Start Num: 12

Candidate Starts for ForGetIt_55:

(Start: 12 @38876 has 34 MA's), (14, 38864), (18, 38789), (19, 38783), (26, 38663),

Gene: Ghoulboy_58 Start: 39749, Stop: 39498, Start Num: 12

Candidate Starts for Ghoulboy_58:

(Start: 12 @39749 has 34 MA's), (21, 39602), (23, 39557),

Gene: Jabiru_57 Start: 38850, Stop: 38599, Start Num: 12

Candidate Starts for Jabiru_57:

(1, 39120), (Start: 12 @38850 has 34 MA's), (18, 38769),

Gene: Jovo_55 Start: 39132, Stop: 38875, Start Num: 12

Candidate Starts for Jovo_55:

(Start: 12 @39132 has 34 MA's), (14, 39120), (18, 39045), (19, 39039), (26, 38919),

Gene: Kudrefre_64 Start: 42258, Stop: 42548, Start Num: 12

Candidate Starts for Kudrefre_64:

(Start: 12 @42258 has 34 MA's), (15, 42276), (24, 42471), (25, 42480), (29, 42507),

Gene: Lev2_55 Start: 38764, Stop: 38507, Start Num: 12

Candidate Starts for Lev2_55:

(Start: 12 @38764 has 34 MA's), (14, 38752), (18, 38677), (19, 38671), (26, 38551),

Gene: MarysWell_55 Start: 39263, Stop: 39006, Start Num: 12

Candidate Starts for MarysWell_55:

(10, 39269), (Start: 12 @39263 has 34 MA's), (17, 39179), (21, 39110), (26, 39050),

Gene: Micasa_56 Start: 39137, Stop: 38880, Start Num: 12

Candidate Starts for Micasa_56:

(Start: 12 @39137 has 34 MA's), (18, 39050), (19, 39044), (20, 38996), (23, 38939), (26, 38924),

Gene: Midas2_54 Start: 39045, Stop: 38788, Start Num: 12

Candidate Starts for Midas2_54:

(Start: 12 @39045 has 34 MA's), (14, 39033), (22, 38886),

Gene: Naca_56 Start: 39389, Stop: 39138, Start Num: 13

Candidate Starts for Naca_56:

(6, 39530), (Start: 8 @39485 has 1 MA's), (11, 39401), (Start: 12 @39398 has 34 MA's), (Start: 13 @39389 has 1 MA's), (21, 39242), (26, 39182), (27, 39173),

Gene: Octobien14_64 Start: 42555, Stop: 42845, Start Num: 12

Candidate Starts for Octobien14_64:

(Start: 12 @42555 has 34 MA's), (15, 42573), (24, 42768), (25, 42777), (27, 42792), (28, 42795),

Gene: PetterN_60 Start: 39004, Stop: 38753, Start Num: 12

Candidate Starts for PetterN_60:

(1, 39274), (7, 39124), (Start: 12 @39004 has 34 MA's), (18, 38923),

Gene: Phlorence_53 Start: 38509, Stop: 38252, Start Num: 12

Candidate Starts for Phlorence_53:

(Start: 12 @38509 has 34 MA's), (14, 38497), (18, 38422), (19, 38416), (26, 38296),

Gene: PickleBack_55 Start: 38756, Stop: 38499, Start Num: 12

Candidate Starts for PickleBack_55:

(9, 38786), (Start: 12 @38756 has 34 MA's), (14, 38744), (18, 38669), (19, 38663), (26, 38543),

Gene: Scorpia_60 Start: 39063, Stop: 38812, Start Num: 12

Candidate Starts for Scorpia_60:

(1, 39333), (Start: 12 @39063 has 34 MA's), (18, 38982),

Gene: Sephiroth_63 Start: 42430, Stop: 42720, Start Num: 12

Candidate Starts for Sephiroth_63:

(Start: 12 @42430 has 34 MA's), (16, 42454), (25, 42652), (29, 42679),

Gene: Swirley_57 Start: 39125, Stop: 38868, Start Num: 12

Candidate Starts for Swirley_57:

(Start: 12 @39125 has 34 MA's), (22, 38966),

Gene: SydNat_58 Start: 39758, Stop: 39507, Start Num: 12

Candidate Starts for SydNat_58:

(Start: 12 @39758 has 34 MA's), (21, 39611), (23, 39566),

Gene: Syleon_65 Start: 42371, Stop: 42661, Start Num: 12

Candidate Starts for Syleon_65:

(Start: 12 @42371 has 34 MA's), (15, 42389), (24, 42584), (25, 42593), (29, 42620),

Gene: Tarynearal_53 Start: 38570, Stop: 38313, Start Num: 12

Candidate Starts for Tarynearal_53:

(Start: 12 @38570 has 34 MA's), (18, 38483), (19, 38477), (20, 38429), (26, 38357),

Gene: Theia_54 Start: 39244, Stop: 38987, Start Num: 12

Candidate Starts for Theia_54:

(10, 39250), (Start: 12 @39244 has 34 MA's), (17, 39160), (21, 39091), (26, 39031),

Gene: Tiger_54 Start: 38430, Stop: 38173, Start Num: 12

Candidate Starts for Tiger_54:

(Start: 12 @38430 has 34 MA's), (14, 38418), (18, 38343), (19, 38337), (26, 38217),

Gene: Twigg_54 Start: 38773, Stop: 38516, Start Num: 12

Candidate Starts for Twigg_54:

(Start: 12 @38773 has 34 MA's), (18, 38686), (19, 38680), (20, 38632), (26, 38560),

Gene: UnionJack_56 Start: 38568, Stop: 38317, Start Num: 12

Candidate Starts for UnionJack_56:

(1, 38841), (Start: 12 @38568 has 34 MA's), (18, 38487), (19, 38481), (26, 38361),

Gene: Zolita_57 Start: 39762, Stop: 39511, Start Num: 12

Candidate Starts for Zolita_57:

(Start: 12 @39762 has 34 MA's), (21, 39615), (23, 39570),