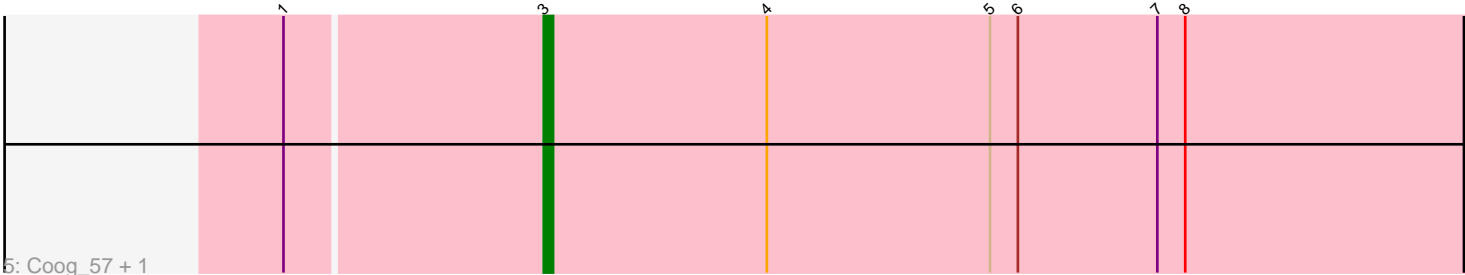
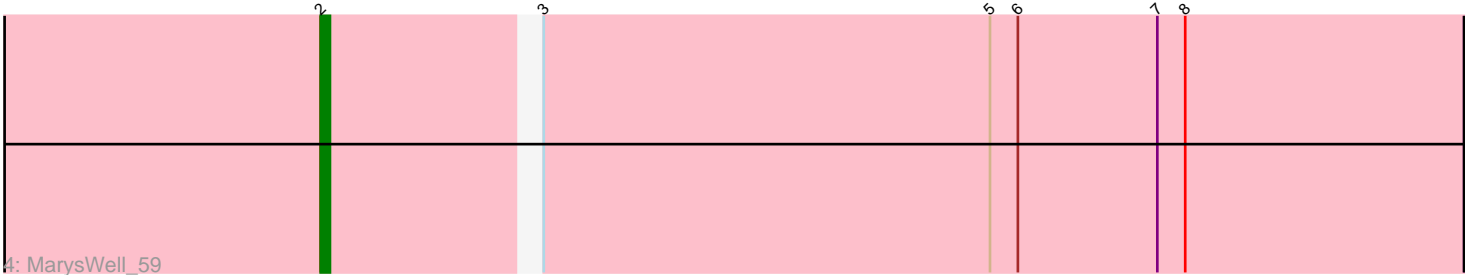
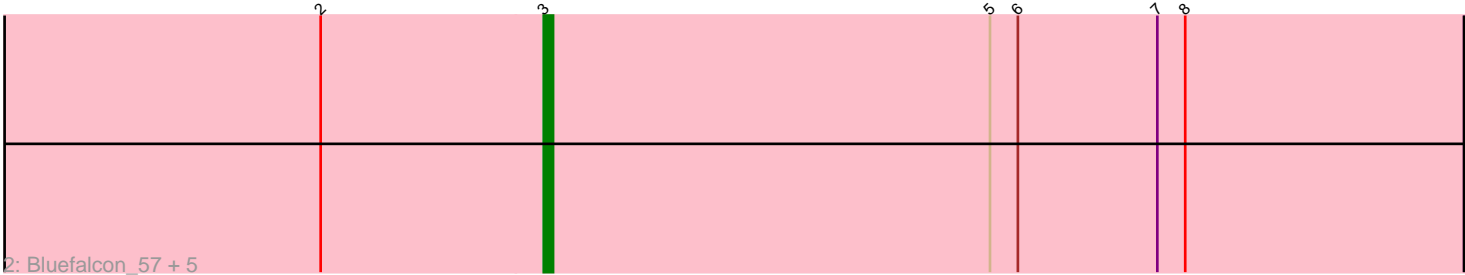
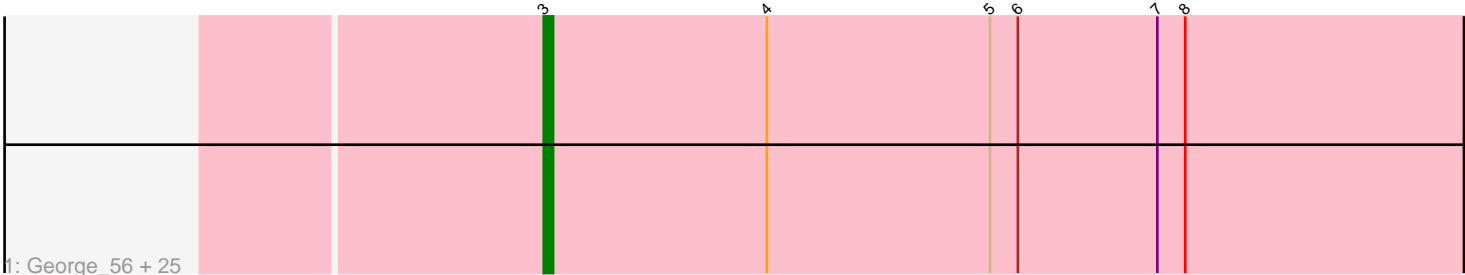


Pham 2483



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 2483 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2483 has 37 members, 1 are drafts.

Phages represented in each track:

- Track 1 : George_56, Chadwick_62, Cuco_59, Naca_60, Benedict_63, Discoknowium_58, Jabiru_61, LittleCherry_58, UnionJack_61, HuhtaEnerson15_58, Tiger_60, Bonamassa_58, Swirley_60, ElTiger69_62, Aragog_60, Jovo_61, PickleBack_61, Tarynearal_57, PetterN_65, AgentM_60, Lev2_61, Phlorence_59, Airmid_60, ForGetIt_61, Conspiracy_61, Milcery_58
- Track 2 : Bluefalcon_57, Zolita_60, Archetta_59, Ghoulboy_61, SydNat_61, Theia_58
- Track 3 : Dublin_59, Micasa_57
- Track 4 : MarysWell_59
- Track 5 : Coog_57, Midas2_57

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

The start number called the most often in the published annotations is 3, it was called in 35 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_60, Airmid_60, Aragog_60, Archetta_59, Benedict_63, Bluefalcon_57, Bonamassa_58, Chadwick_62, Conspiracy_61, Coog_57, Cuco_59, Discoknowium_58, Dublin_59, ElTiger69_62, ForGetIt_61, George_56, Ghoulboy_61, HuhtaEnerson15_58, Jabiru_61, Jovo_61, Lev2_61, LittleCherry_58, Micasa_57, Midas2_57, Milcery_58, Naca_60, PetterN_65, Phlorence_59, PickleBack_61, Swirley_60, SydNat_61, Tarynearal_57, Theia_58, Tiger_60, UnionJack_61, Zolita_60,

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

- MarysWell_59,

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

-

Summary by start number:

Start 2:

- Found in 9 of 37 (24.3%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 11.1% of time when present
- Phage (with cluster) where this start called: MarysWell_59 (A5),

Start 3:

- Found in 37 of 37 (100.0%) of genes in pham
- Manual Annotations of this start: 35 of 36
- Called 97.3% of time when present
- Phage (with cluster) where this start called: AgentM_60 (A5), Airmid_60 (A5), Aragog_60 (A5), Archetta_59 (A5), Benedict_63 (A5), Bluefalcon_57 (A5), Bonamassa_58 (A5), Chadwick_62 (A5), Conspiracy_61 (A5), Coog_57 (A5), Cuco_59 (A5), Discoknowium_58 (A5), Dublin_59 (A5), ElTiger69_62 (A5), ForGetIt_61 (A5), George_56 (A5), Ghoulboy_61 (A5), HuhtaEnerson15_58 (A5), Jabiru_61 (A5), Jovo_61 (A5), Lev2_61 (A5), LittleCherry_58 (A5), Micasa_57 (A5), Midas2_57 (A5), Milcery_58 (A5), Naca_60 (A5), PetterN_65 (A5), Phlorence_59 (A5), PickleBack_61 (A5), Swirley_60 (A5), SydNat_61 (A5), Tarynearal_57 (A5), Theia_58 (A5), Tiger_60 (A5), UnionJack_61 (A5), Zolita_60 (A5),

Summary by clusters:

There is one cluster represented in this pham: A5

Info for manual annotations of cluster A5:

- Start number 2 was manually annotated 1 time for cluster A5.
- Start number 3 was manually annotated 35 times for cluster A5.

Gene Information:

Gene: AgentM_60 Start: 39901, Stop: 39803, Start Num: 3

Candidate Starts for AgentM_60:

(Start: 3 @39901 has 35 MA's), (4, 39877), (5, 39853), (6, 39850), (7, 39835), (8, 39832),

Gene: Airmid_60 Start: 39893, Stop: 39795, Start Num: 3

Candidate Starts for Airmid_60:

(Start: 3 @39893 has 35 MA's), (4, 39869), (5, 39845), (6, 39842), (7, 39827), (8, 39824),

Gene: Aragog_60 Start: 39921, Stop: 39823, Start Num: 3

Candidate Starts for Aragog_60:

(Start: 3 @39921 has 35 MA's), (4, 39897), (5, 39873), (6, 39870), (7, 39855), (8, 39852),

Gene: Archetta_59 Start: 40181, Stop: 40083, Start Num: 3

Candidate Starts for Archetta_59:

(Start: 2 @40202 has 1 MA's), (Start: 3 @40181 has 35 MA's), (5, 40133), (6, 40130), (7, 40115), (8, 40112),

Gene: Benedict_63 Start: 40182, Stop: 40084, Start Num: 3

Candidate Starts for Benedict_63:

(Start: 3 @40182 has 35 MA's), (4, 40158), (5, 40134), (6, 40131), (7, 40116), (8, 40113),

Gene: Bluefalcon_57 Start: 40201, Stop: 40103, Start Num: 3

Candidate Starts for Bluefalcon_57:

(Start: 2 @40222 has 1 MA's), (Start: 3 @40201 has 35 MA's), (5, 40153), (6, 40150), (7, 40135), (8, 40132),

Gene: Bonamassa_58 Start: 39743, Stop: 39645, Start Num: 3

Candidate Starts for Bonamassa_58:

(Start: 3 @39743 has 35 MA's), (4, 39719), (5, 39695), (6, 39692), (7, 39677), (8, 39674),

Gene: Chadwick_62 Start: 39869, Stop: 39771, Start Num: 3

Candidate Starts for Chadwick_62:

(Start: 3 @39869 has 35 MA's), (4, 39845), (5, 39821), (6, 39818), (7, 39803), (8, 39800),

Gene: Conspiracy_61 Start: 40143, Stop: 40045, Start Num: 3

Candidate Starts for Conspiracy_61:

(Start: 3 @40143 has 35 MA's), (4, 40119), (5, 40095), (6, 40092), (7, 40077), (8, 40074),

Gene: Coog_57 Start: 39957, Stop: 39859, Start Num: 3

Candidate Starts for Coog_57:

(1, 39984), (Start: 3 @39957 has 35 MA's), (4, 39933), (5, 39909), (6, 39906), (7, 39891), (8, 39888),

Gene: Cuco_59 Start: 39817, Stop: 39719, Start Num: 3

Candidate Starts for Cuco_59:

(Start: 3 @39817 has 35 MA's), (4, 39793), (5, 39769), (6, 39766), (7, 39751), (8, 39748),

Gene: Discoknowium_58 Start: 39660, Stop: 39562, Start Num: 3

Candidate Starts for Discoknowium_58:

(Start: 3 @39660 has 35 MA's), (4, 39636), (5, 39612), (6, 39609), (7, 39594), (8, 39591),

Gene: Dublin_59 Start: 39893, Stop: 39795, Start Num: 3

Candidate Starts for Dublin_59:

(Start: 2 @39914 has 1 MA's), (Start: 3 @39893 has 35 MA's), (5, 39845), (6, 39842), (7, 39827), (8, 39824),

Gene: ElTiger69_62 Start: 40117, Stop: 40019, Start Num: 3

Candidate Starts for ElTiger69_62:

(Start: 3 @40117 has 35 MA's), (4, 40093), (5, 40069), (6, 40066), (7, 40051), (8, 40048),

Gene: ForGetIt_61 Start: 40168, Stop: 40070, Start Num: 3

Candidate Starts for ForGetIt_61:

(Start: 3 @40168 has 35 MA's), (4, 40144), (5, 40120), (6, 40117), (7, 40102), (8, 40099),

Gene: George_56 Start: 39487, Stop: 39389, Start Num: 3

Candidate Starts for George_56:

(Start: 3 @39487 has 35 MA's), (4, 39463), (5, 39439), (6, 39436), (7, 39421), (8, 39418),

Gene: Ghoulboy_61 Start: 40455, Stop: 40357, Start Num: 3

Candidate Starts for Ghoulboy_61:

(Start: 2 @40476 has 1 MA's), (Start: 3 @40455 has 35 MA's), (5, 40407), (6, 40404), (7, 40389), (8, 40386),

Gene: HuhtaEnerson15_58 Start: 39637, Stop: 39539, Start Num: 3

Candidate Starts for HuhtaEnerson15_58:

(Start: 3 @39637 has 35 MA's), (4, 39613), (5, 39589), (6, 39586), (7, 39571), (8, 39568),

Gene: Jabiru_61 Start: 40036, Stop: 39938, Start Num: 3

Candidate Starts for Jabiru_61:

(Start: 3 @40036 has 35 MA's), (4, 40012), (5, 39988), (6, 39985), (7, 39970), (8, 39967),

Gene: Jovo_61 Start: 40424, Stop: 40326, Start Num: 3

Candidate Starts for Jovo_61:

(Start: 3 @40424 has 35 MA's), (4, 40400), (5, 40376), (6, 40373), (7, 40358), (8, 40355),

Gene: Lev2_61 Start: 40056, Stop: 39958, Start Num: 3

Candidate Starts for Lev2_61:

(Start: 3 @40056 has 35 MA's), (4, 40032), (5, 40008), (6, 40005), (7, 39990), (8, 39987),

Gene: LittleCherry_58 Start: 39507, Stop: 39409, Start Num: 3

Candidate Starts for LittleCherry_58:

(Start: 3 @39507 has 35 MA's), (4, 39483), (5, 39459), (6, 39456), (7, 39441), (8, 39438),

Gene: MarysWell_59 Start: 40157, Stop: 40038, Start Num: 2

Candidate Starts for MarysWell_59:

(Start: 2 @40157 has 1 MA's), (Start: 3 @40136 has 35 MA's), (5, 40088), (6, 40085), (7, 40070), (8, 40067),

Gene: Micasa_57 Start: 39858, Stop: 39760, Start Num: 3

Candidate Starts for Micasa_57:

(Start: 2 @39879 has 1 MA's), (Start: 3 @39858 has 35 MA's), (5, 39810), (6, 39807), (7, 39792), (8, 39789),

Gene: Midas2_57 Start: 39957, Stop: 39859, Start Num: 3

Candidate Starts for Midas2_57:

(1, 39984), (Start: 3 @39957 has 35 MA's), (4, 39933), (5, 39909), (6, 39906), (7, 39891), (8, 39888),

Gene: Milcery_58 Start: 39455, Stop: 39357, Start Num: 3

Candidate Starts for Milcery_58:

(Start: 3 @39455 has 35 MA's), (4, 39431), (5, 39407), (6, 39404), (7, 39389), (8, 39386),

Gene: Naca_60 Start: 40421, Stop: 40323, Start Num: 3

Candidate Starts for Naca_60:

(Start: 3 @40421 has 35 MA's), (4, 40397), (5, 40373), (6, 40370), (7, 40355), (8, 40352),

Gene: PetterN_65 Start: 40167, Stop: 40069, Start Num: 3

Candidate Starts for PetterN_65:

(Start: 3 @40167 has 35 MA's), (4, 40143), (5, 40119), (6, 40116), (7, 40101), (8, 40098),

Gene: Phlorence_59 Start: 39801, Stop: 39703, Start Num: 3

Candidate Starts for Phlorence_59:

(Start: 3 @39801 has 35 MA's), (4, 39777), (5, 39753), (6, 39750), (7, 39735), (8, 39732),

Gene: PickleBack_61 Start: 39978, Stop: 39880, Start Num: 3

Candidate Starts for PickleBack_61:

(Start: 3 @39978 has 35 MA's), (4, 39954), (5, 39930), (6, 39927), (7, 39912), (8, 39909),

Gene: Swirley_60 Start: 39846, Stop: 39748, Start Num: 3

Candidate Starts for Swirley_60:

(Start: 3 @39846 has 35 MA's), (4, 39822), (5, 39798), (6, 39795), (7, 39780), (8, 39777),

Gene: SydNat_61 Start: 40464, Stop: 40366, Start Num: 3

Candidate Starts for SydNat_61:

(Start: 2 @40485 has 1 MA's), (Start: 3 @40464 has 35 MA's), (5, 40416), (6, 40413), (7, 40398), (8, 40395),

Gene: Tarynearal_57 Start: 39441, Stop: 39343, Start Num: 3

Candidate Starts for Tarynearal_57:

(Start: 3 @39441 has 35 MA's), (4, 39417), (5, 39393), (6, 39390), (7, 39375), (8, 39372),

Gene: Theia_58 Start: 40117, Stop: 40019, Start Num: 3

Candidate Starts for Theia_58:

(Start: 2 @40138 has 1 MA's), (Start: 3 @40117 has 35 MA's), (5, 40069), (6, 40066), (7, 40051), (8, 40048),

Gene: Tiger_60 Start: 39722, Stop: 39624, Start Num: 3

Candidate Starts for Tiger_60:

(Start: 3 @39722 has 35 MA's), (4, 39698), (5, 39674), (6, 39671), (7, 39656), (8, 39653),

Gene: UnionJack_61 Start: 39708, Stop: 39610, Start Num: 3

Candidate Starts for UnionJack_61:

(Start: 3 @39708 has 35 MA's), (4, 39684), (5, 39660), (6, 39657), (7, 39642), (8, 39639),

Gene: Zolita_60 Start: 40468, Stop: 40370, Start Num: 3

Candidate Starts for Zolita_60:

(Start: 2 @40489 has 1 MA's), (Start: 3 @40468 has 35 MA's), (5, 40420), (6, 40417), (7, 40402), (8, 40399),