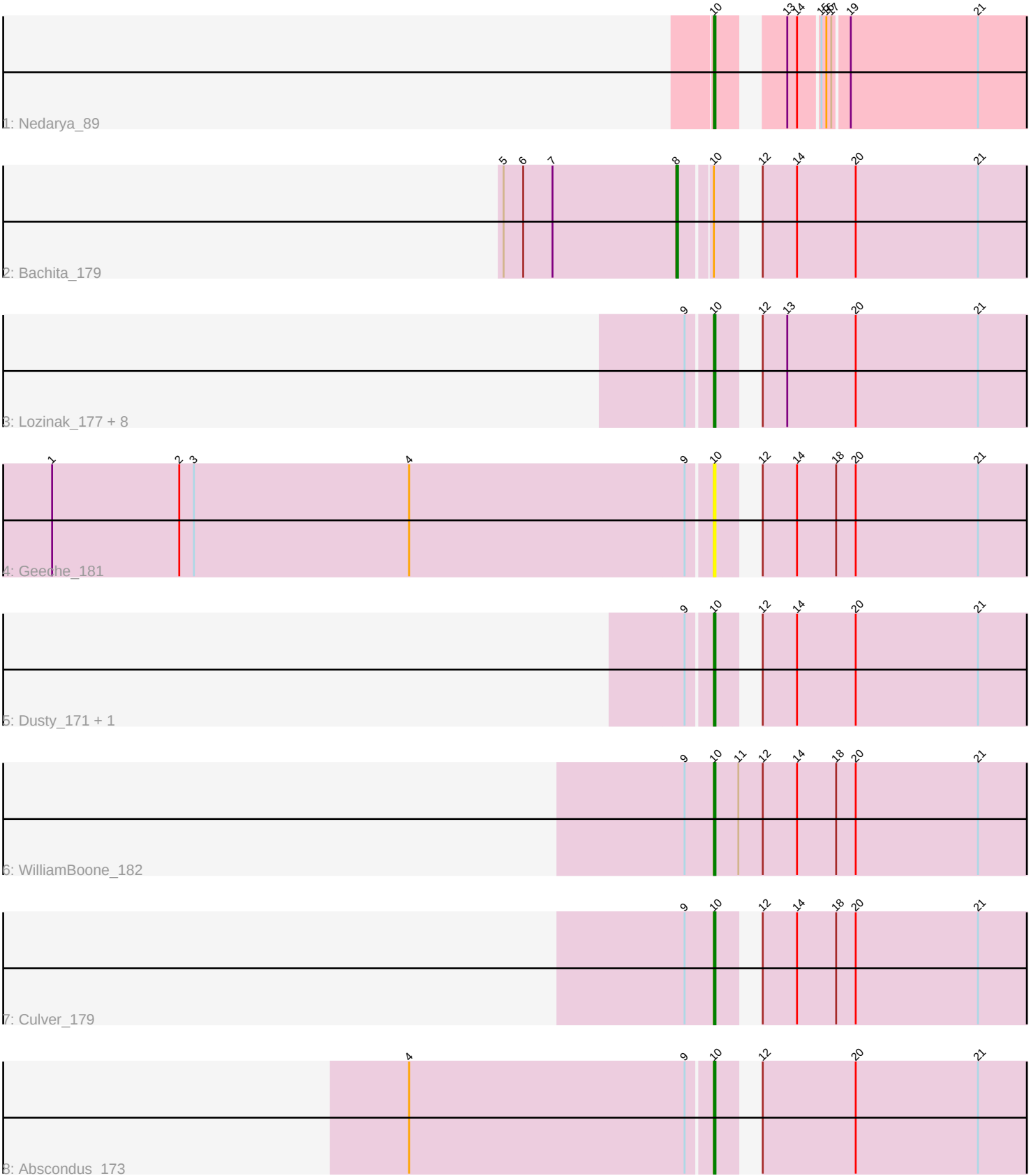




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 309436 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309436 has 17 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nedarya_89
- Track 2 : Bachita_179
- Track 3 : Lozinak_177, PhinkBoden_174, Aphelion_175, Norvs_174, Toniann_177, Miskis_168, Smoothie_178, Cucurbita_176, ClubL_177
- Track 4 : Geeche_181
- Track 5 : Dusty_171, Engineer_178
- Track 6 : WilliamBoone_182
- Track 7 : Culver_179
- Track 8 : Abscondus_173

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

The start number called the most often in the published annotations is 10, it was called in 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_173, Aphelion_175, ClubL_177, Cucurbita_176, Culver_179, Dusty_171, Engineer_178, Geeche_181, Lozinak_177, Miskis_168, Nedarya_89, Norvs_174, PhinkBoden_174, Smoothie_178, Toniann_177, WilliamBoone_182,

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

- Bachita_179,

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

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Summary by start number:

Start 8:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bachita_179 (CQ1),

Start 10:

- Found in 17 of 17 (100.0%) of genes in pham
- Manual Annotations of this start: 15 of 16
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Abscondus_173 (CQ1), Aphelion_175 (CQ1), ClubL_177 (CQ1), Cucurbita_176 (CQ1), Culver_179 (CQ1), Dusty_171 (CQ1), Engineer_178 (CQ1), Geeche_181 (CQ1), Lozinak_177 (CQ1), Miskis_168 (CQ1), Nedarya_89 (A15), Norvs_174 (CQ1), PhinkBoden_174 (CQ1), Smoothie_178 (CQ1), Toniann_177 (CQ1), WilliamBoone_182 (CQ1),

Summary by clusters:

There are 2 clusters represented in this pham: A15, CQ1,

Info for manual annotations of cluster A15:

- Start number 10 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster CQ1:

- Start number 8 was manually annotated 1 time for cluster CQ1.
- Start number 10 was manually annotated 14 times for cluster CQ1.

Gene Information:

Gene: Abscondus_173 Start: 87999, Stop: 87820, Start Num: 10

Candidate Starts for Abscondus_173:

(4, 88182), (9, 88014), (Start: 10 @87999 has 15 MA's), (12, 87984), (20, 87927), (21, 87852),

Gene: Aphelion_175 Start: 88897, Stop: 88718, Start Num: 10

Candidate Starts for Aphelion_175:

(9, 88912), (Start: 10 @88897 has 15 MA's), (12, 88882), (13, 88867), (20, 88825), (21, 88750),

Gene: Bachita_179 Start: 88991, Stop: 88794, Start Num: 8

Candidate Starts for Bachita_179:

(5, 89093), (6, 89081), (7, 89063), (Start: 8 @88991 has 1 MA's), (Start: 10 @88973 has 15 MA's), (12, 88958), (14, 88937), (20, 88901), (21, 88826),

Gene: ClubL_177 Start: 88218, Stop: 88039, Start Num: 10

Candidate Starts for ClubL_177:

(9, 88233), (Start: 10 @88218 has 15 MA's), (12, 88203), (13, 88188), (20, 88146), (21, 88071),

Gene: Cucurbita_176 Start: 89279, Stop: 89100, Start Num: 10

Candidate Starts for Cucurbita_176:

(9, 89294), (Start: 10 @89279 has 15 MA's), (12, 89264), (13, 89249), (20, 89207), (21, 89132),

Gene: Culver_179 Start: 87812, Stop: 87633, Start Num: 10

Candidate Starts for Culver_179:

(9, 87830), (Start: 10 @87812 has 15 MA's), (12, 87797), (14, 87776), (18, 87752), (20, 87740), (21, 87665),

Gene: Dusty_171 Start: 87623, Stop: 87444, Start Num: 10

Candidate Starts for Dusty_171:

(9, 87638), (Start: 10 @87623 has 15 MA's), (12, 87608), (14, 87587), (20, 87551), (21, 87476),

Gene: Engineer_178 Start: 88974, Stop: 88795, Start Num: 10

Candidate Starts for Engineer_178:

(9, 88989), (Start: 10 @88974 has 15 MA's), (12, 88959), (14, 88938), (20, 88902), (21, 88827),

Gene: Geeche_181 Start: 89642, Stop: 89463, Start Num: 10

Candidate Starts for Geeche_181:

(1, 90044), (2, 89966), (3, 89957), (4, 89825), (9, 89657), (Start: 10 @89642 has 15 MA's), (12, 89627), (14, 89606), (18, 89582), (20, 89570), (21, 89495),

Gene: Lozinak_177 Start: 88822, Stop: 88643, Start Num: 10

Candidate Starts for Lozinak_177:

(9, 88837), (Start: 10 @88822 has 15 MA's), (12, 88807), (13, 88792), (20, 88750), (21, 88675),

Gene: Miskis_168 Start: 87663, Stop: 87484, Start Num: 10

Candidate Starts for Miskis_168:

(9, 87678), (Start: 10 @87663 has 15 MA's), (12, 87648), (13, 87633), (20, 87591), (21, 87516),

Gene: Nedarya_89 Start: 48485, Stop: 48312, Start Num: 10

Candidate Starts for Nedarya_89:

(Start: 10 @48485 has 15 MA's), (13, 48455), (14, 48449), (15, 48437), (16, 48434), (17, 48431), (19, 48422), (21, 48344),

Gene: Norvs_174 Start: 87998, Stop: 87819, Start Num: 10

Candidate Starts for Norvs_174:

(9, 88013), (Start: 10 @87998 has 15 MA's), (12, 87983), (13, 87968), (20, 87926), (21, 87851),

Gene: PhinkBoden_174 Start: 88396, Stop: 88217, Start Num: 10

Candidate Starts for PhinkBoden_174:

(9, 88411), (Start: 10 @88396 has 15 MA's), (12, 88381), (13, 88366), (20, 88324), (21, 88249),

Gene: Smoothie_178 Start: 88694, Stop: 88515, Start Num: 10

Candidate Starts for Smoothie_178:

(9, 88709), (Start: 10 @88694 has 15 MA's), (12, 88679), (13, 88664), (20, 88622), (21, 88547),

Gene: Toniann_177 Start: 88139, Stop: 87960, Start Num: 10

Candidate Starts for Toniann_177:

(9, 88154), (Start: 10 @88139 has 15 MA's), (12, 88124), (13, 88109), (20, 88067), (21, 87992),

Gene: WilliamBoone_182 Start: 87648, Stop: 87454, Start Num: 10

Candidate Starts for WilliamBoone_182:

(9, 87666), (Start: 10 @87648 has 15 MA's), (11, 87633), (12, 87618), (14, 87597), (18, 87573), (20, 87561), (21, 87486),